

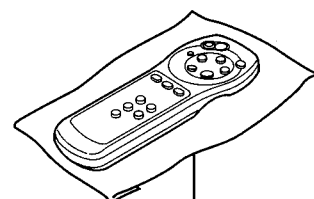
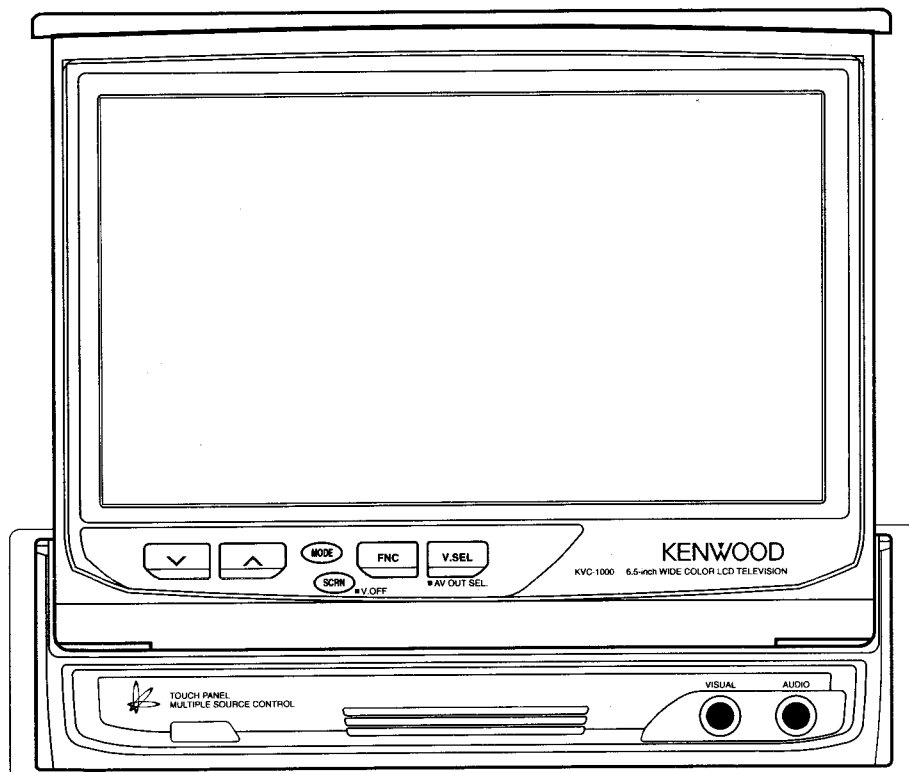
WIDE TV

KVC-1000

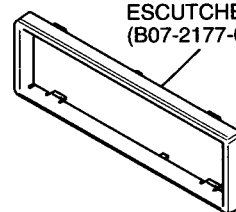
SERVICE MANUAL

KENWOOD

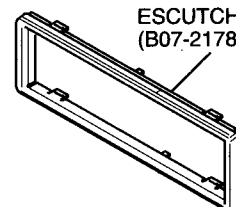
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B51-7523-00 (K) 1818



REMOTE CONTROLLER
(A70-2002-05)

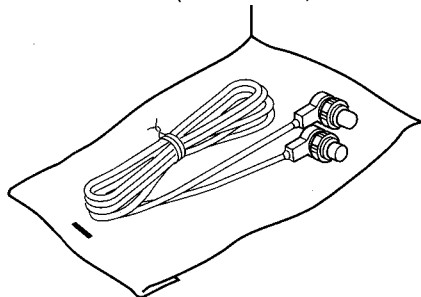


ESCUTCHEON (Thicker one)
(B07-2177-02)

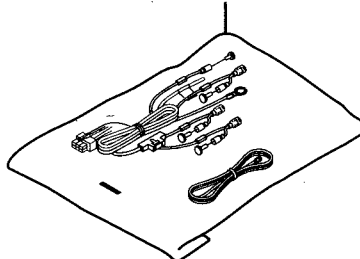


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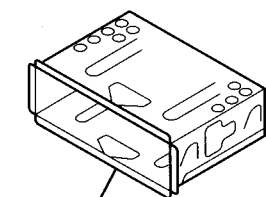
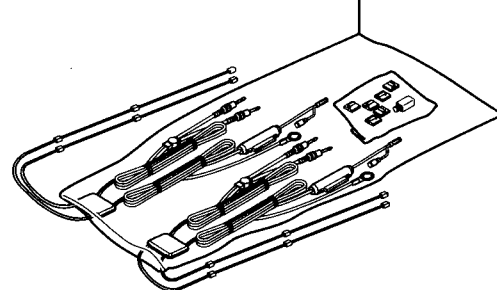
CONNECTING CORD ASSY
(E30-4747-05)



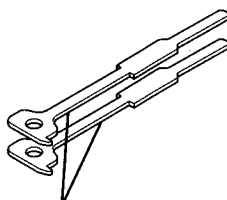
DC CORD ASSY
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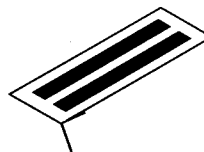
ANTENNA ASSY
(T90-0518-05)



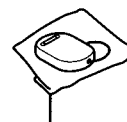
MOUNTING HARDWARE ASSY
(J21-7881-03)



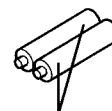
LEVER
(D10-4395-04)x2



CUSHION
(G11-1860-05)



REMOTE CONTROLLER
(A70-0886-05)



BATTERY
(Non-service part)

KVC-1000

COMPONENT DESCRIPTION

VIDEO CONTROL UNIT (X14-6072-70)

REF. No.	NAME	FUNCTION
IC1	μ-COM	Microcomputer.
IC2	μ-COM RESET	Microcomputer reset. Detecting voltage : 3.0V.
IC3	BUS INTERFACE	MZ-BUS communication.
IC4	EEPROM	Memorizes value of the monitor mechanism sensor and the touch panel calibration.
IC5	REMOTE SENSOR	Receives TV and the navigation remote controller signals.
IC6	5V AVR	5V AVR.
IC101	AUDIO SW	Switches audio signal.
IC102	AUDIO SW	Switches audio signal.
IC103	ISOLATION AMPLIFIER	Isolates the navigation input audio signal.
IC104	ISOLATION AMPLIFIER	Isolates external input audio signal.
IC105	ISOLATION AMPLIFIER	Isolates external input audio signal.
IC106	AUDIO SW	Switches audio signal.
IC107	OPERATION AMPLIFIER	Buffer & amplifier of center voltage for audio power supply.
IC108	NOISE CANCELER	Cancels noise.
IC109	15KHz LPF	15KHz LPF.
IC110	MONORAL BTL AUDIO AMPLIFIER	Amplifies internal speaker signal.
IC201	TV DIVERSITY SW	Switches TV antenna.
IC202	VIDEO SW	Switches external input video signal.
IC203	VIDEO SW	Switches external output video signal.
IC204	AM DETECTOR	Detects SIF (AM).
IC205	TV VIF/MACRO	Detects VIF, and processes macro.
IC301	TV VIF/SIF	Detects VIF and SIF for the diversity signal.
IC302	RGB SW	Switches video signal for the diversity signal.
IC303	SYNC PULSE SEPARATOR	For the diversity signal.
IC304	NOR GATE	For the diversity signal.
IC501	DC/DC CONVERTER CONTROLLER	Controls DC/DC converter.
IC502	ON-SCREEN DISPLAY CONTROLLER	Controls on-screen display (OSD).
IC503	OSD BUFFER	OSD circuit buffer.
IC504	MOTOR DRIVER	Drives TV mechanism motor.
IC505	OSD/VIDEO SW	Switches on-screen signal and video signal.
IC507	HALF TONE	Switches video signal and semi-brightness signal.
IC508	MOTOR DRIVER	Drives TV mechanism motor.
Q1	ACC DETECTION	Detects ACC.
Q2	BACK-UP DETECTOR	Detects the back-up.
Q3	PARKING DETECTOR	Detects the parking signal.
Q4	MASTER/SLAVE DETECTOR	Detects the master and slave.
Q5	BACK-UP 5V AVR	Supplies 5V to the back-up circuit.
Q6	BACK-UP 5V AVR	Supplies 5V to microcomputer .
Q7	ILLUMINATION DETECTOR	Detects illumination signal.
Q8	BACK-UP SW	Switches the back-up power supply.
Q9	Q8 DRIVER	Drives Q8.
Q10	TV 8.5V AVR	Supplies power to TV front-end and intermediate frequency (IF) circuit.
Q11	BACK-UP 5V SW	Switched by the back-up comes to 5V.
Q12	VIDEO 5V AVR	Supplies power to video circuit.
Q13	SYSTEM 9V AVR	Supplies power to motor driver and key illumination circuit.

COMPONENT DESCRIPTION

VIDEO CONTROL UNIT (X14-6072-70)

REF. No.	NAME	FUNCTION
Q14	Q13 SW	Switches AVR of Q13 .
Q15	Q14 DRIVER	Drives Q14.
Q16	AUDIO 8.5V AVR	Supplies power to audio circuit.
Q17	BUZZER DRIVER	Drives buzzer.
Q18	RESET SW	Controls panel circuit reset and the bus reset.
Q19	SYSTEM ON/OFF SW	Controls the bus system-on or off input.
Q20	SYSTEM ON/OFF SW	Controls the bus system-on or off output.
Q21	PANEL RESET DRIVER	"ON" during panel reset key goes on.
Q22	AUDIO MUTE DRIVER	Drives the bus audio mute.
Q23	AUDIO MUTE DRIVER	Drives the bus audio mute.
Q24	Q16 DRIVER	Drives Q16.
Q101	BACK-UP SERGE SW	Switches MZ-BUS GND.
Q102	AUDIO MUTE DRIVER	Drives AUX output audio mute.
Q103	AUDIO MUTE DRIVER	Drives AUX output audio mute.
Q104	AUDIO SW	Switches AUX output audio signal.
Q105	AUDIO MUTE	AUX output audio mute.
Q106	AUDIO MUTE	AUX output audio mute.
Q107	AUDIO SW	Switches AUX output audio signal.
Q108	AUDIO SW	Switches MZ-BUS output audio signal.
Q109	AUDIO SW	Switches MZ-BUS output audio signal.
Q110	BUS GND SW	Switches the bus GND line on or off.
Q111	Q101 DRIVER	Drives Q101 current.
Q112	AUDIO SW	Switches internal speaker audio signal.
Q113	AUDIO SW	Switches internal speaker audio signal.
Q114	SP-AMP 8.5V AVR	Supplies power to speaker amplifier.
Q115	SP-AMP 8.5V AVR	Supplies power to speaker amplifier.
Q116	AUDIO MUTE	Speaker amplifier's volume mute.
Q201	VIDEO BUFFER	Video signal buffer for the diversity signal.
Q202	DIVERSITY SW	Turns TV antenna diversity signal on or off.
Q203	H-SYNC PULSE GENERATOR	Generates H-synchronization pulse.
Q204	H-SYNC PULSE GENERATOR	Generates H-synchronization pulse.
Q205	VIDEO SW	Switches external input video signal.
Q206	VIDEO SW	Switches external input video signal.
Q208	SYNC MUTE	Synchronization mute.
Q209	RGB BUFFER	RGB signals buffer.
Q210	RGB BUFFER	RGB signals buffer.
Q211	RGB BUFFER	RGB signals buffer.
Q212	VIDEO BUFFER	Video signal buffer.
Q213	VIDEO BUFFER	Video signal buffer.
Q214	IF SW	Switches SAW filter input intermediate frequency.
Q215	IF SW	Switches SAW filter input intermediate frequency.
Q216	RGB MUTE	RGB signals mute.
Q217	RGB MUTE	RGB signals mute.
Q218	RGB MUTE	RGB signals mute.
Q219	SYNC BUFFER	Synchronized signal buffer.
Q220	VIF AMPLIFIER	Amplifies VIF.
Q301	CRYSTAL RESONATOR SW	Switches crystal resonator.

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COMPONENT DESCRIPTION

VIDEO CONTROL UNIT (X14-6072-70)

REF. No.	NAME	FUNCTION
Q302	CRYSTAL RESONATOR SW	Switches crystal resonator.
Q303	CRYSTAL RESONATOR SW	Switches crystal resonator.
Q304	CRYSTAL RESONATOR SW	Switches crystal resonator.
Q305	SIF AMPLIFIER	Amplifies SIF.
Q306	VIDEO BUFFER	Video signal buffer.
Q501	IC501 POWER SW	Turns IC501 power supply on or off.
Q502	IC501 POWER SW	Turns IC501 power supply on or off.
Q503	IC501 POWER SW	Turns IC501 power supply on or off.
Q504	DC/DC SW	Drives fly-back circuit.
Q505	DC/DC SW	Drives chopper circuit.
Q506	Q505 DRIVER	Drives Q505.
Q507	Q505 DRIVER	Drives Q505.
Q508	SEMI-BRIGHTNESS CONTROLLER	Controls semi-brightness on OSD circuit.
Q509	GREEN DRIVER	Drives "G" of RGB signals on OSD circuit.
Q510	RED DRIVER	Drives "R" of RGB signals on OSD circuit.
Q511	BLUE DRIVER	Drives "B" of RGB signals on OSD circuit.
Q513	SLIDE MOTOR VOLTAGE SW	Switches slide motor voltage.
Q514	H-SYNC BUFFER	H-synchronization signal buffer.
Q515	RED DRIVER	Drives "R" of RGB signals on OSD circuit.
Q516	GREEN DRIVER	Drives "G" of RGB signals on OSD circuit.
Q517	BLUE DRIVER	Drives "B" of RGB signals on OSD circuit.

VIDEO UNIT (X35-4132-71)

REF. No.	NAME	FUNCTION
IC30	V-COM DRIVER	Driver and buffer for V-COM AC.
IC31	GAMMA CORRECTOR	Corrects the gamma.
IC61	MONORAL MULTIPLEXER	Controls the black mask.
IC71	TIMING CONTROLLER	Controls LCD.
IC91	PLL CONTROLLER	Controls PLL.
Q11	CONTROL SW	Controlling switch for the touch panel circuit.
Q12	CONTROL SW	Controlling switch for the touch panel circuit.
Q13	CONTROL SW	Controlling switch for the touch panel circuit.
Q14	CONTROL SW	Controlling switch for the touch panel circuit.
Q15	CONTROL SW	Controlling switch for the touch panel circuit.
Q16	ILLUMINATION-ON SW	Turns illumination on.
Q20	INVERTER DRIVER	Drives inverter.
Q21	INVERTER DRIVER	Drives inverter.
Q22	INVERTER SW	Switches inverter.
Q23	DIMMER SW	Switches dimmer.
Q24	DIMMER SW	Switches dimmer.
Q60	7.5V AVR	Supplies 7.5V to the gamma corrector IC (IC31).
Q61	12V AVR	Ripple filter.
Q73	TV/NAVI SW	Switches TV and the navigation mode.
Q74	TV/NAVI SW	Switches TV and the navigation mode.
Q91	VCO	Oscillates PLL.

CIRCUIT DESCRIPTION

(X14-) IC1 : μ -COM

PORT No.	PORT NAME	I/O	FUNCTION	OPERATING CONDITION
1	EX M+	O	Mechanism slide motor output +.	
2	EX M-	O	Mechanism slide motor output -.	
3	RI M+	O	Mechanism tilt motor output +.	
4	RI M-	O	Mechanism tilt motor output -.	
5	EX SW	O	Mechanism slide motor voltage control.	
6	SP MUTE	O	Speaker mute.	
7	BUS G SW	O	BUS GND switch.	"H" : KVC-1000's source.
8	MEC PON	O	Mechanism power supply and LED on.	"H" : Power ON.
9	VDD	-	Power supply.	
10	X2	-	Main system clock input 2.	
11	X1	-	Main system clock input 1.	
12	VSS	-	GND.	
13	XT2	-	Sub system clock input 2.	
14	XT1	-	Sub system clock input 1.	
15	$\overline{\text{RESET}}$	I	Reset input.	"L" : Reset.
16	$\overline{\text{POWER KEY}}$	I	"OPEN" key input.	"L" : ON/OFF.
17	BIRQ	I	BUS communication request interrupt.	
18	PWM	I	Brightness control synchronization signal input.	
19	SYNC MUTE	O	Synchronization signal mute.	
20	VO1	O	Video switch 1.	
21	VO2	O	Video switch 2.	
22	REF CON	O	A/D converter reference voltage output.	
23	A VDD	-	A/D converter analogue power supply.	
24	AV REF 0	I	A/D converter reference voltage input.	
25	E SENS	I	Mechanism slide position input.	
26	R SENS	I	Mechanism tilt position input.	
27	TP XDT	I	Touch panel X coordinate data input.	
28	TP YDT	I	Touch panel Y coordinate data input.	
29	AGC	I	AGC value input.	
30	TYPE	I	Destination input.	
31	$\overline{\text{MEC SW}}$	O	Mechanism connection detection.	"L" : Mechanism connected.
32	OSD TRE	I	OSD communication permission input.	
33	A VSS	-	Connected to A/D converter and D/A converter GND.	
34	BLACK	O	Black level adjustment.	
35	CONTRAST	O	Contrast adjustment.	
36	AV REF 1	-	D/A converter reference voltage.	
37	OSD CS	O	OSD communication chip selector.	"H" : Selected.
38	OSD DO	O	OSD communication data output.	
39	OSD CK	O	OSD communication clock.	
40	NAVI D I	I	Navigation communication data input.	
41	NAVI D O	O	Navigation communication data output.	
42	NAVI CK I	I	Navigation communication clock input.	
43	NAVI CK O	O	Navigation communication clock output.	
44	$\overline{\text{OSD RST}}$	O	OSD communication reset.	Reset when "L" continues 1mS or the more.
45	BDT I	I	BUS communication data input.	
46	BDT O	O	BUS communication data output.	
47	B CLK	O	BUS communication clock.	
48	B RST	O	BUS communication reset.	
49	B CS	O	BUS communication chip selector.	
50	B C/D	O	BUS communication code/decode switch.	

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CIRCUIT DESCRIPTION

(X14-) IC1 : μ -COM

PORT No.	PORT NAME	I/O	FUNCTION	OPERATING CONDITION
51	KS2	O	Key scan 2.	
52	KS1	O	Key scan 1.	
53	KR3	I	Key return 3.	"H" : Key ON.
54	KR2	I	Key return 2.	"H" : Key ON.
55	KR1	I	Key return 1.	"H" : Key ON.
56	TR X1	O	Touch panel X coordinate designation 1.	
57	TP X0	O	Touch panel X coordinate designation 0.	
58	TP Y0	O	Touch panel Y coordinate designation 0.	
59	TEST1	O	TV PLL test mode.	"L" during only single TV antenna is used.
60	LED ON	O	LED on during mechanism operates.	"H" : LED ON.
61	TV L	O	TV L form.	"H" : France ch2,3,4.
62	JACK	I	Front AV connection detection.	"L" : Connection exists.
63	TV DK	O	TV DK form.	
64	TV I	O	TV I form.	
65	NTSC	O	NTSC/PAL switch.	"H" : NTSC.
66	MDS	O	Wide mode switch.	
67	MDW	O	Wide mode switch.	
68	MDN	O	Wide mode switch.	
69	RGB SW	O	RGB video switch.	"H" : TV/VIDEO.
70	AB1	O	Audio switch 1.	
71	AB2	O	Audio switch 2.	
72	VSS	-	GND.	
73	BU DET	I	BACK-UP input.	"L" : BACK-UP OFF.
74	ACC DET	I	ACC input.	"L" : ACC OFF.
75	ON REQ	I	System-on input.	"L" : ON-request.
76	OFF REQ	I	P. ON request input.	"L" : OFF-request.
77	SLV SW	I	TV solo operation switch.	"H" : Solo operation.
78	AV IN/OUT	I	Rear AV input/output switch.	"H" : AV IN.
79	VI1	O	Video input switch.	"H" : Front.
80	ILLUMI	I	Illumination switch.	"L" : Illumination ON.
81	VDD	-	Power supply.	
82	PARK SW	I	The parking switch.	"H" : ON.
83	BEEP	O	Beep output.	
84	SP VOL	O	Speaker output.	
85	HSY	I	Brightness control counter input.	
86	AO1	O	Audio output 1.	
87	AO2	O	Audio output 2.	
88	AS1	O	Speaker output 1.	
89	AS2	O	Speaker output 2.	
90	BRIGHT	O	Brightness output.	
91	REMO	I	Remote control input.	
92	BUS MUTE	O	Bus mute output.	"H" : Mute.
93	AO MUTE	O	TV audio mute output.	"H" : Mute.
94	TEST	-	Connected to VSS.	
95	SYS ON	O	System-on output.	"L" : System ON.
96	SYS OFF	O	System-off output.	"L" : System OFF.
97	PON	O	Power-on output.	"L" : BACK-UP 5V SW ON.
98	SCL	O	12C clock output.	
99	SDA	I/O	12C data input and output.	
100	AM/FM	O	AM/FM switch	"L" : AM.

TEST MODE

(1) Setting method

- While holding the 'VOL UP' and 'V.SEL' keys depressed, reset the unit.

(2) Common contents

- The TV source is selected.
- The seek mode is set to auto mode.
- The screen mode is set to full-size.
- Pressing the ADJ key in the MENU screen writes the maximum and minimum stop positions of the mechanism tilting/sliding in the EEPROM.
- Adjusting TOUCH in the SET UP screen writes the reference points (2 points) of the touch panel in the EEPROM.
- When writing in the EEPROM is finished normally, the beep tone is generated twice.
- An error occurrence causes the beep tone to be generated 4 times.
- When a screen other than the picture window is touched, a cross-cursor is displayed.
- The transmitter can be switched ON/OFF using the MODE key on the remote control unit (the transmitter is usually OFF).
- The diversity can be switched ON/OFF using the V.SEL key on the remote control unit (it is usually ON).
- Pressing the SP_MODE key on the remote control unit calls the touch panel adjustment screen.
- Clicking ANGLE, SLIDE, BRT, TIN, COL, CONT or BLK once switches the function between Full-down <=> Center <=> Full-up.
- Short press of a key causes the beep tone to be generated.
- Display after power ON:
German CH9.

(3) Initial preset channel value

TV Format	Country	Initial Preset CH					
PAL-B/G	Germany	Preset No.	①	②	③	④	⑤ ⑥
		CH No.	3	9	43	69	2 2

TV Format	Country	Initial Preset CH					
PAL-I	UK	Preset No.	①	②	③	④	⑤ ⑥
		CH No.	21	21	43	69	A A

TV Format	Country	Initial Preset CH					
SECAM-L	France	Preset No.	①	②	③	④	⑤ ⑥
		CH No.	3	8	48	69	2 2

TV Format	Country	Initial Preset CH					
SECAM-D/K	Hungary	Preset No.	①	②	③	④	⑤ ⑥
		CH No.	2	10	43	69	1 1

TV Format	Country	Initial Preset CH					
SECAM-B/G	Greece	Preset No.	①	②	③	④	⑤ ⑥
		CH No.	3	9	43	69	2 2

(4) Writes the immobilizer mode in the EEPROM.

- Clears the immobilizer code.
- Pressing the FNC key on the remote control unit calls the TV Area setup screen.

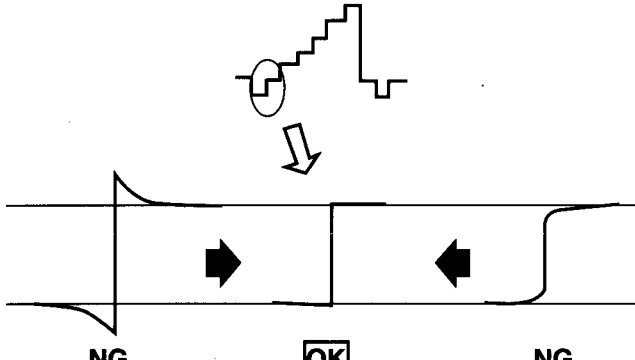
Canceling the Test Mode

Any of the reset, momentary power down, ACC OFF and POWER OFF operations causes the test mode to be canceled and resets all settings to the initial default values.

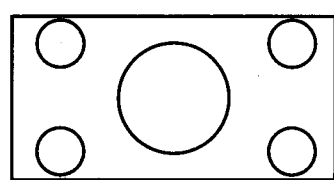

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ADJUSTMENT

(X14-)

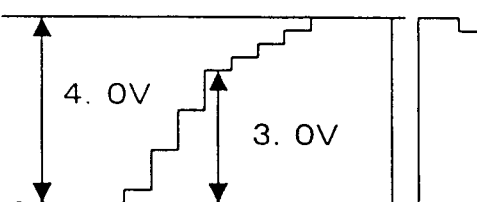
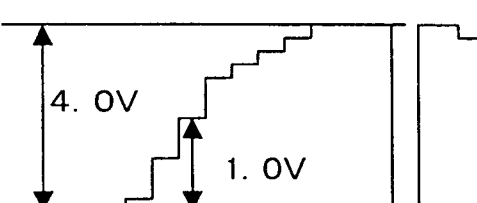
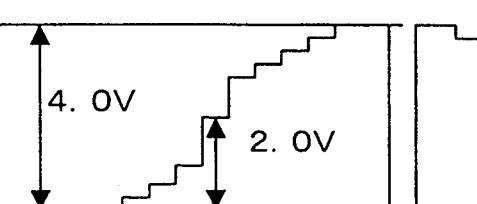
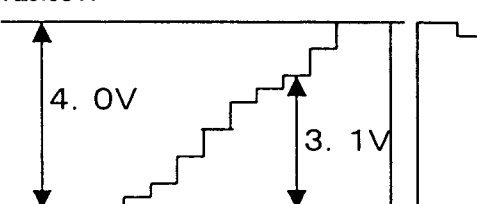
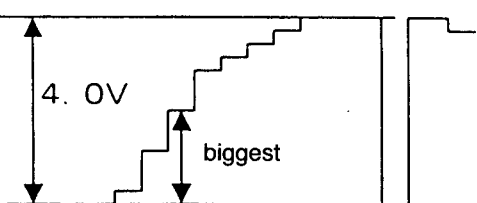
Item	Adjustment Procedure/Value	Condition
1. Diversity free-run frequency adjustment VR201 DIVERSITY FREE RUN FREQUENCY	<ol style="list-style-type: none"> 1. Connect a frequency counter to TP [IC201 #7]. 2. Apply 5V at TP [IC201 #8]. 3. Apply 2.5V (low impedance) at TP [IC201 #2]. 4. Adjust VR201 [15kHz] to read 15625Hz±100Hz. 	• No ANT input signal
2. Audio detection coil adjustment L301 AUDIO DETECTION	<ol style="list-style-type: none"> 1. Input the 70dBu RF signal of the color bar signal of CH9 to the ANT input terminal. 2. Connect a voltmeter to TP [SIF] (across R304) and adjust L301 to read 0V±0.01V. 	<ul style="list-style-type: none"> • PAL B/G • P/S ratio 10dB
3. Diversity video detection coil adjustment L303 DIVERSITY VIDEO DETECTION	<ol style="list-style-type: none"> 1. Input the 70dBu RF signal of the stair-step signal of CH9 to the ANT input terminal. 2. Observe the waveform at TP [VIDEO] (R327 at the emitter of Q306) and adjust L303 so that the sync tip and pedestal edge become horizontal as shown below. 	<ul style="list-style-type: none"> • PAL B/G • Color OFF

(X35-)

Item	Adjustment Procedure/Value	Condition
1. Free-run frequency adjustment VR110 15.734KHz	With no video input, adjust VR110 so that the HYS frequency is 15.734kHz±0.01kHz.	• No input video
2. Screen display start position adjustment VR70 2.1μSec	<ul style="list-style-type: none"> • Adjust VR70 so that the phase difference between the negative going of HSY and positive going of SYNC is 2.1usec. Instead of the above, it is also acceptable to adjust the monoscope screen so that its left and right sections are even. 	• Monoscope
3. Input signal	<p>Apply a composite sync signal (10-step signal) to the SYNC input.</p> 	• To the VIDEO input of Mother (X14).

ADJUSTMENT

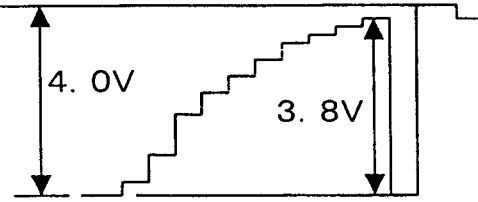
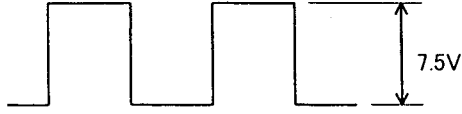

(X35-)

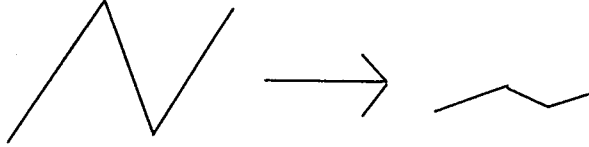
Item	Adjustment Procedure/Value	Condition
4. Gamma curve adjustment ①VR36 RGB AMP ②VR32-34 GAMMA ③VR35 BLACK ADJ	1. Adjust RGB AMP VR36 so that the voltage between SYNC signals is $4.0V \pm 0.1V_{p-p}$. 2. Adjust VR32, VR33 and VR34 so that the GAMMA 0, GAMMA 2 and CONTRAST voltages are $3.5V \pm 0.05V$. 3. Adjust BLACK ADJ VR35 so that the voltage at the 4th step from the pedestal is $3.0V \pm 0.05V$. 	<ul style="list-style-type: none"> Input signal: Composite input (10-step signal) AC range Oscilloscope: 1V/DIV. or 0.5V/DIV.
4. Gamma curve adjustment ④VR32 GAMMA	4. Adjust GAMMA 0 VR32 so that the voltage at the 3rd step from the pedestal is $1.0V \pm 0.05V$. 	<ul style="list-style-type: none"> Input signal: Composite input (10-step signal) AC range Oscilloscope: 1V/DIV.
4. Gamma curve adjustment ⑤VR35 BLACK ADJ	5. Adjust BLACK ADJ VR35 so that the voltage at the 4th step from the pedestal is $2.0V \pm 0.05V$. (Note) There are 2 points where the voltage can be adjusted to 2V, but always rotate the potentiometer clockwise in this adjustment. If the potentiometer is rotated counterclockwise, the adjustment in 6 below will not be achievable. 	<ul style="list-style-type: none"> Input signal: Composite input (10-step signal) AC range Oscilloscope: 1V/DIV.
4. Gamma curve adjustment ⑥VR33 GAMMA	6. Adjust GAMMA 2 VR33 so that the voltage at the 7th step from the pedestal is $3.1V \pm 0.05V$. 	<ul style="list-style-type: none"> Input signal: Composite input (10-step signal) AC range Oscilloscope: 1V/DIV.
4. Gamma curve adjustment ⑦VR35 BLACK ADJ	7. Adjust BLACK ADJ VR35 to maximize the voltage at the 3rd step from the pedestal. 	<ul style="list-style-type: none"> Input signal: Composite input (10-step signal) AC range Oscilloscope: 1V/DIV.

KVC-1000

ADJUSTMENT

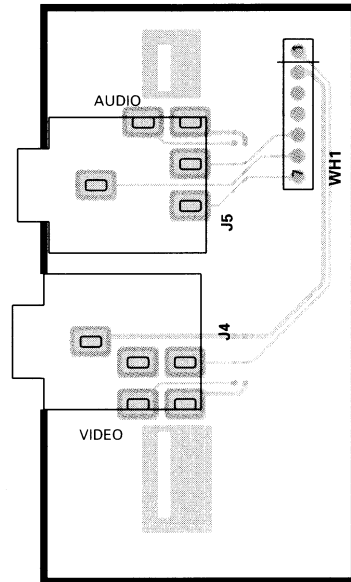
(X35-)

Item	Adjustment Procedure/Value	Condition
4. Gamma curve adjustment ⑧VR34 CONTRAST ADJ	8. Adjust CONTRAST ADJ VR34 so that the voltage at the 11th step from the pedestal is $3.8V \pm 0.05V$. 	<ul style="list-style-type: none"> Input signal: Composite input (10-step signal) AC range Oscilloscope: 1V/DIV.
5. VCOM amplitude adjustment VR31 COM-AC	Adjust COM-AC VR31 so that the VCOM amplitude becomes as shown below. $7.5 \pm 0.1V$ 	<ul style="list-style-type: none"> Input signal: Composite input (10-step signal) AC range Oscilloscope: 1V/DIV.
6. VCOM center adjustment VR30 COM-DC	Adjust COM-DC VR30 so that the VCOM waveform becomes as shown below. 1.5 ± 0.5 	<ul style="list-style-type: none"> Input signal: Composite input (10-step signal) DC range

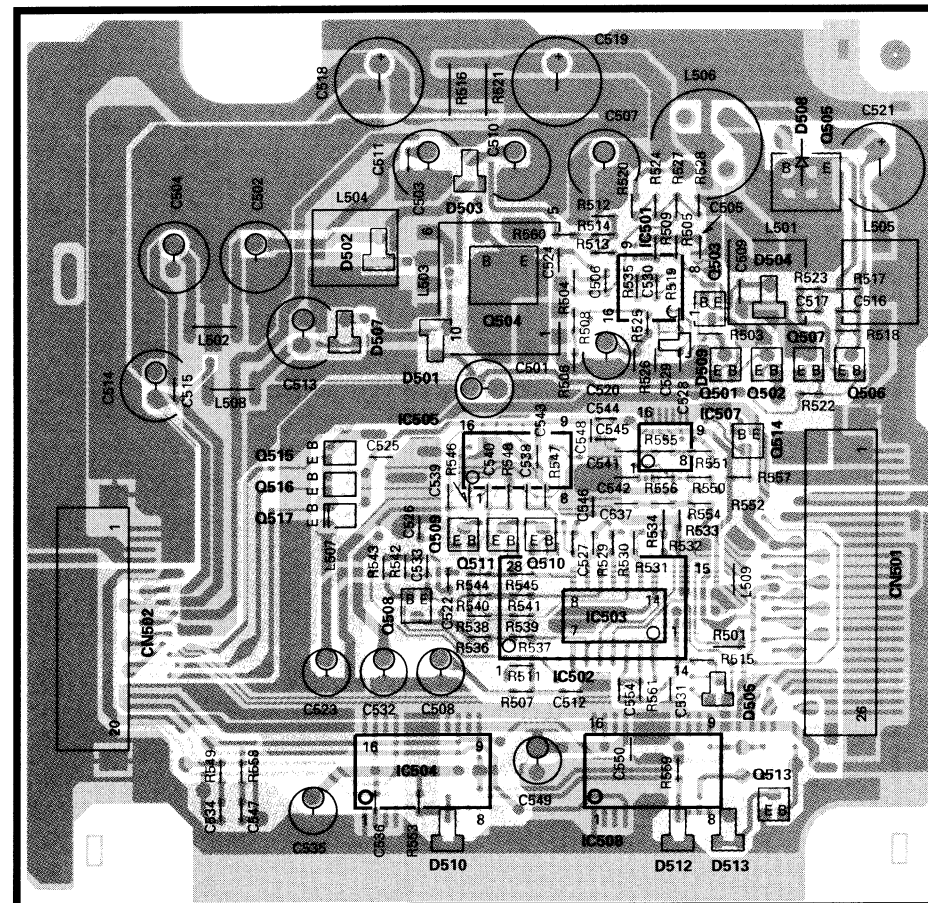
Item	Adjustment Procedure/Value	Condition
1. Screen display start position check VR70 MONO SCOPE	Check the monoscope screen to see if the left and right sections are even. If they are deviated slightly, adjust VR70 to make them even. If they are deviated considerably, restart adjustments from that of X35.	<ul style="list-style-type: none"> Monoscope
2. Flicker adjustment VR30 FLICKER	Adjust VR30 to minimize flickering (60Hz component). 	<ul style="list-style-type: none"> Input signal: Composite input, gray RASTA (white 30% to 50%) AC range Flicker adjustment tool

PC BOARD(Component side view)

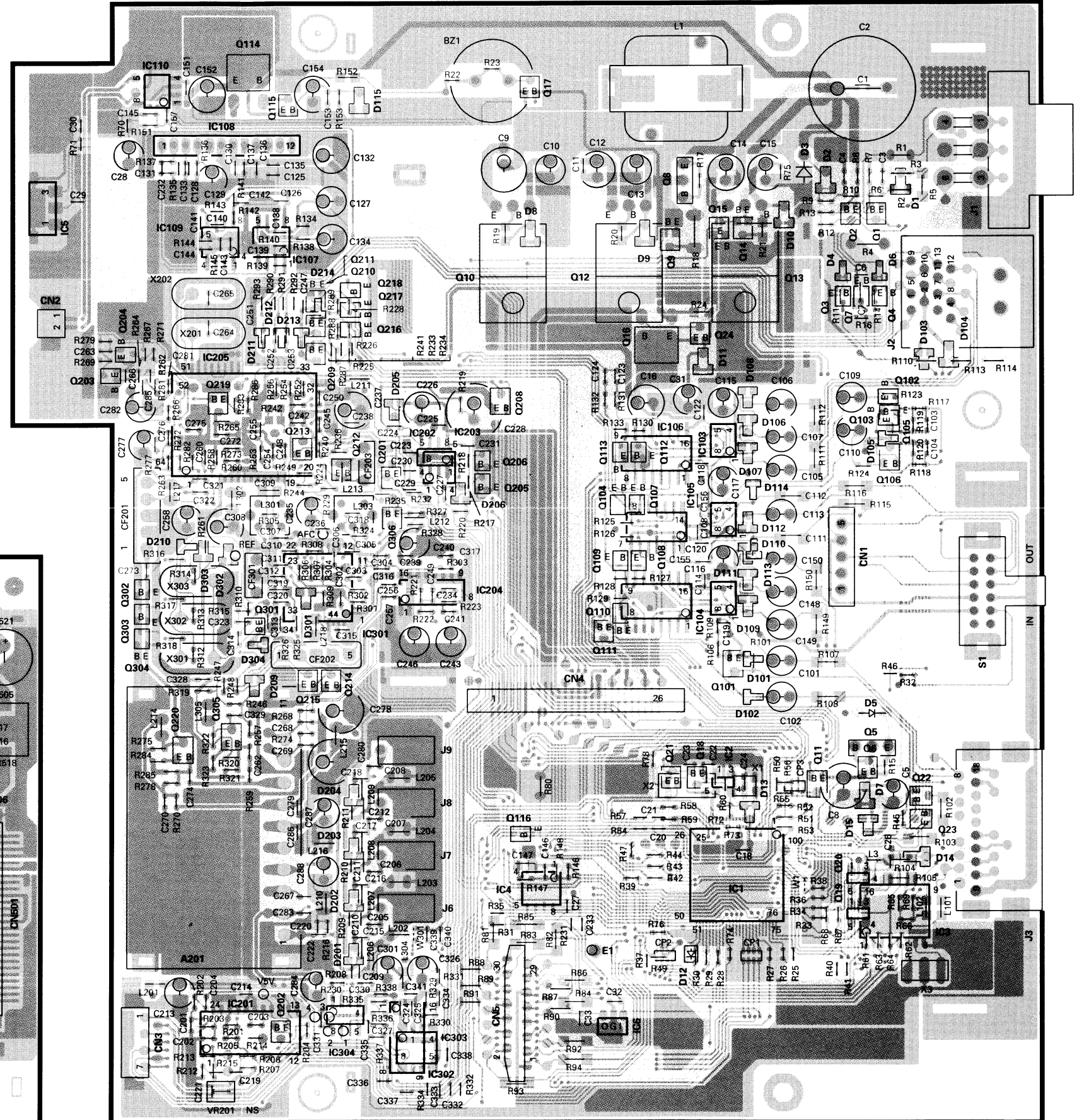
X14 C/3



X14 B/3

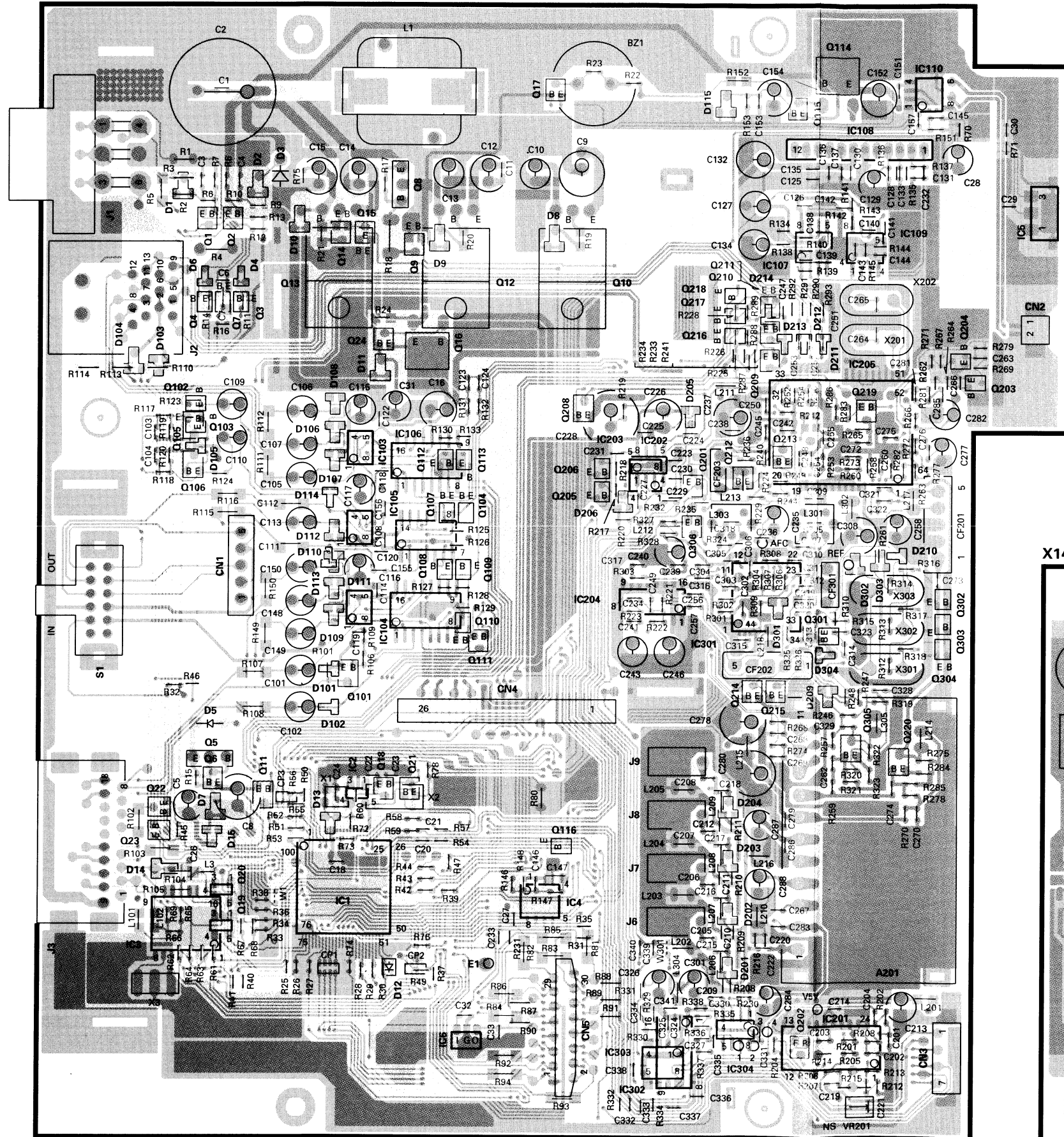


VIDEO CONTROL UNIT
X14-6072-70 A/3 (J74-0904-02)

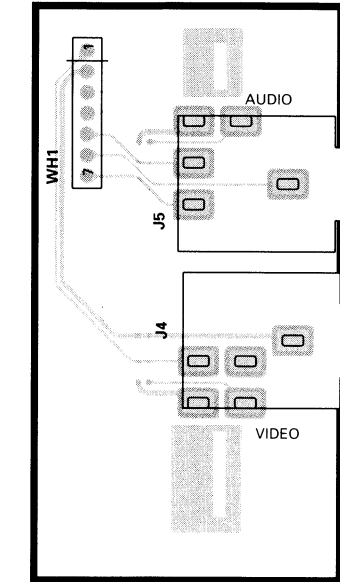


PC BOARD(Foil side view)

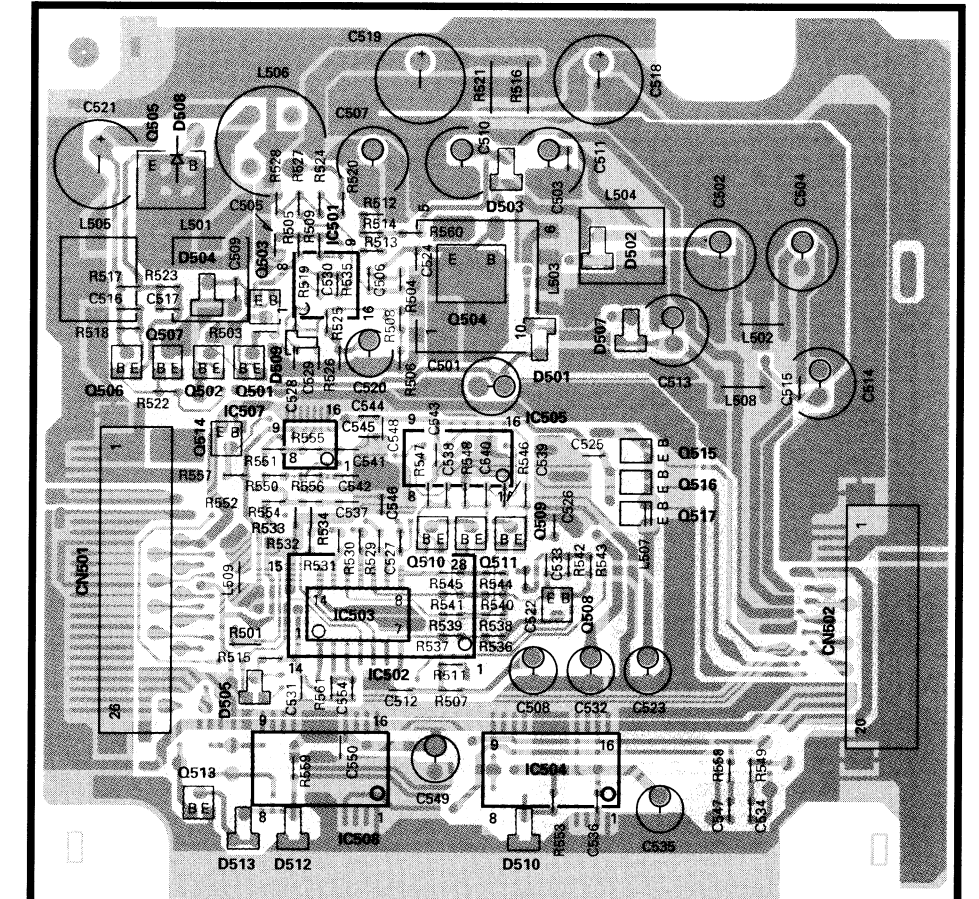
VIDEO CONTROL UNIT
X14-6072-70 A/3 (J74-0904-02)

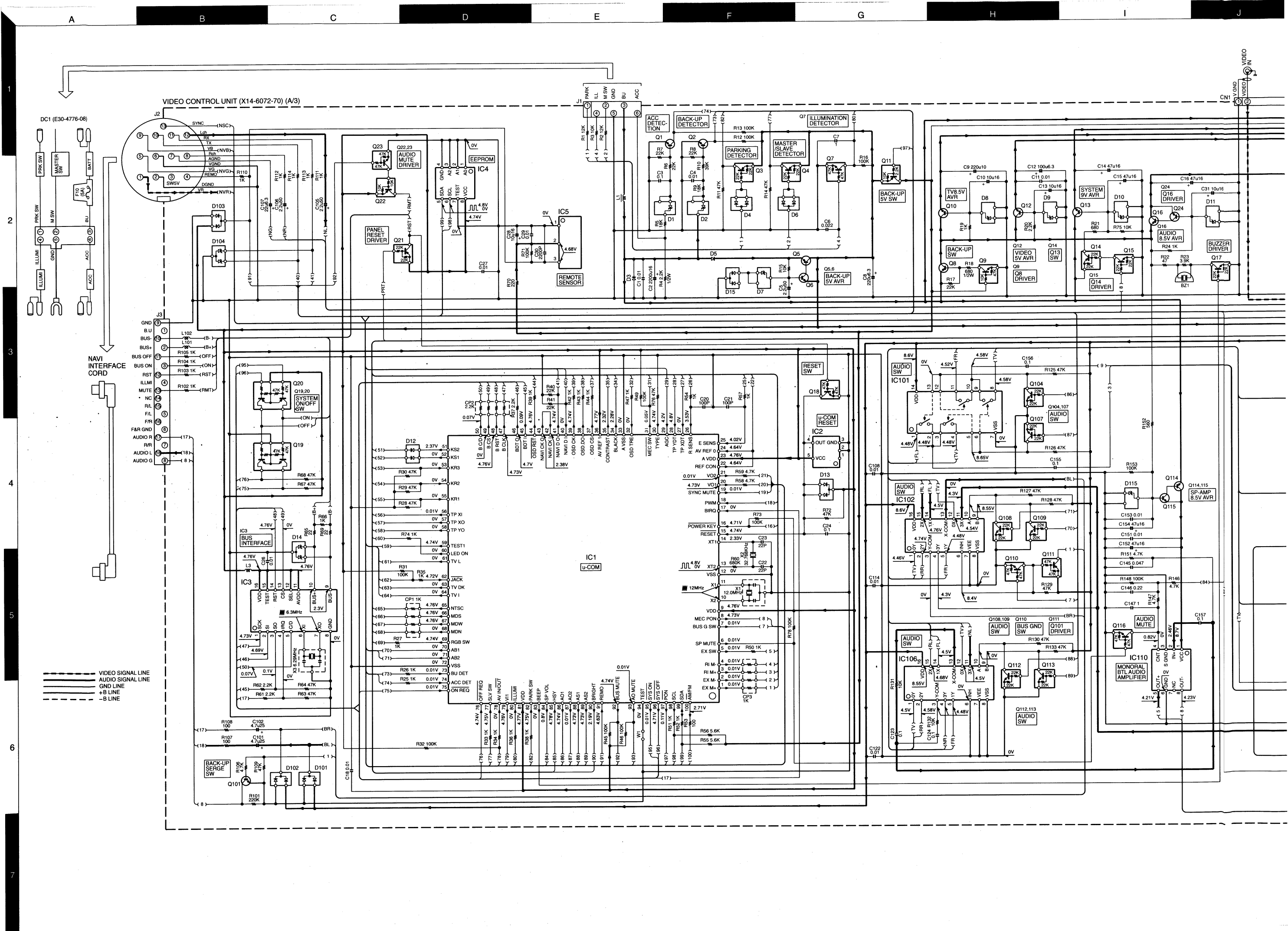


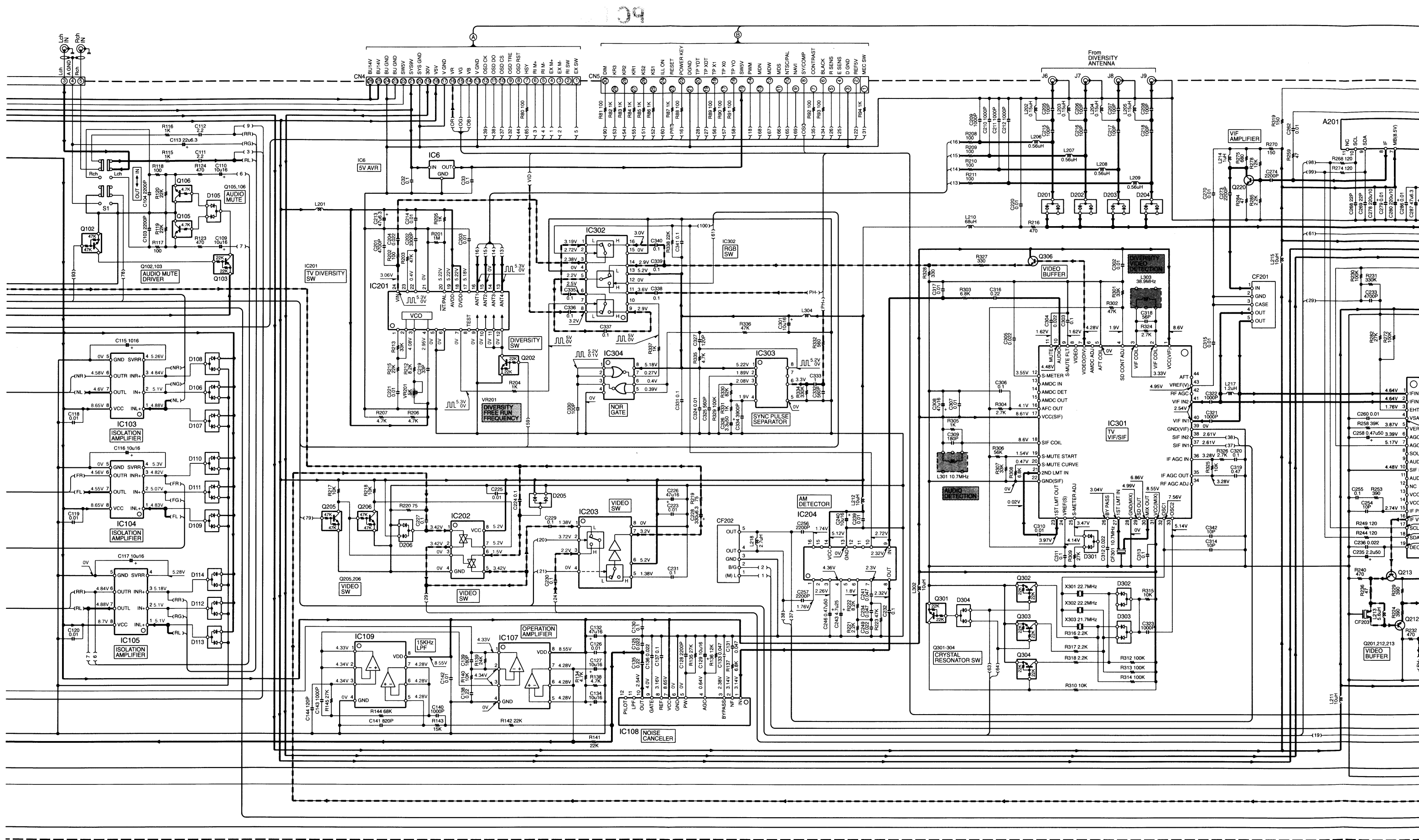
X14 C/3



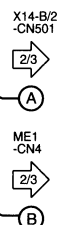
X14 B/3







CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

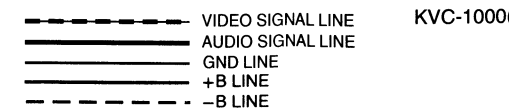
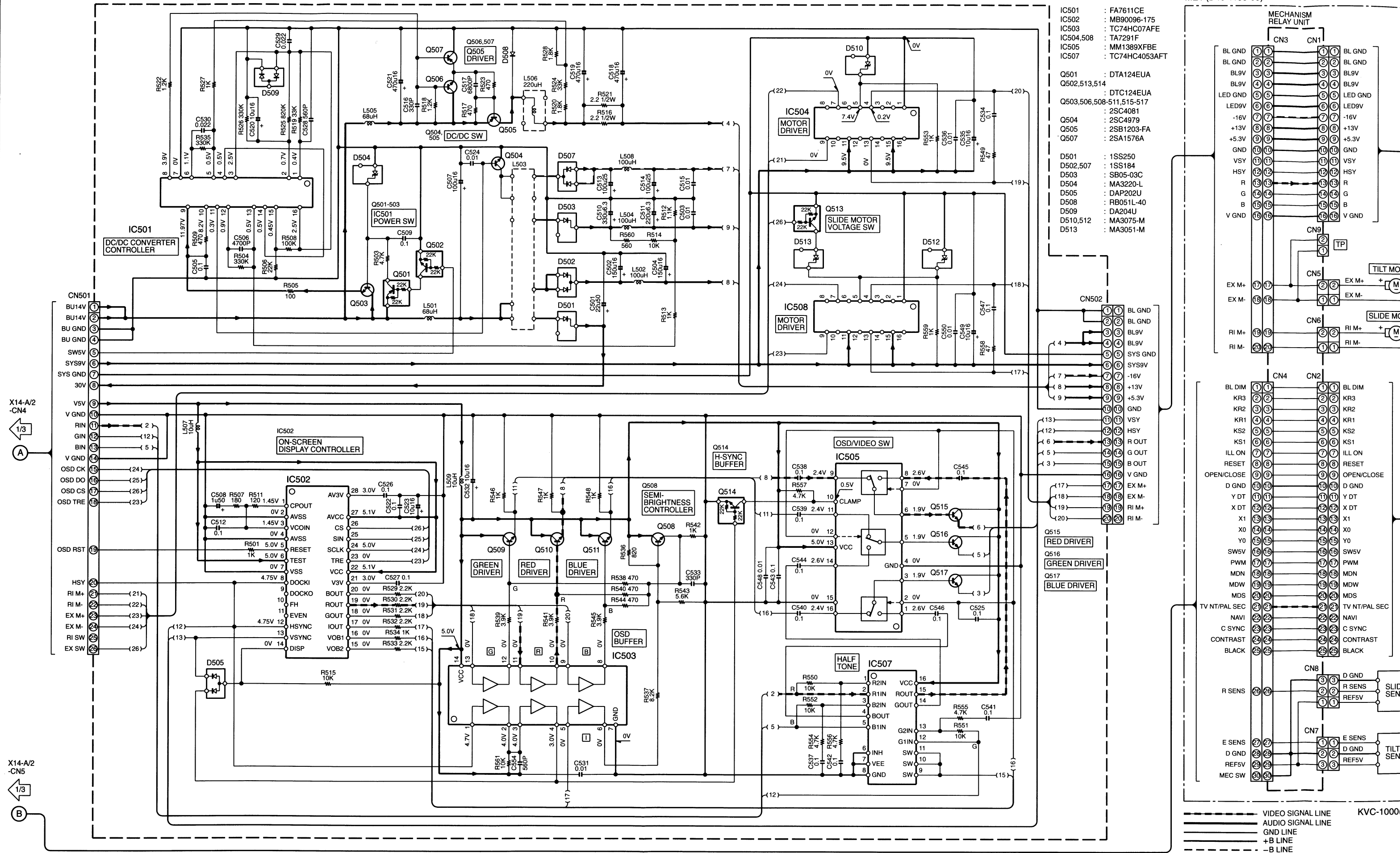


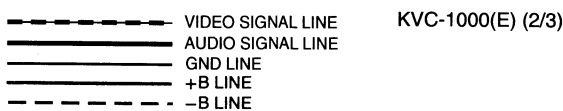
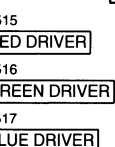
KVC-1000(E) (1/3)

KVC-1000
KENWOOD

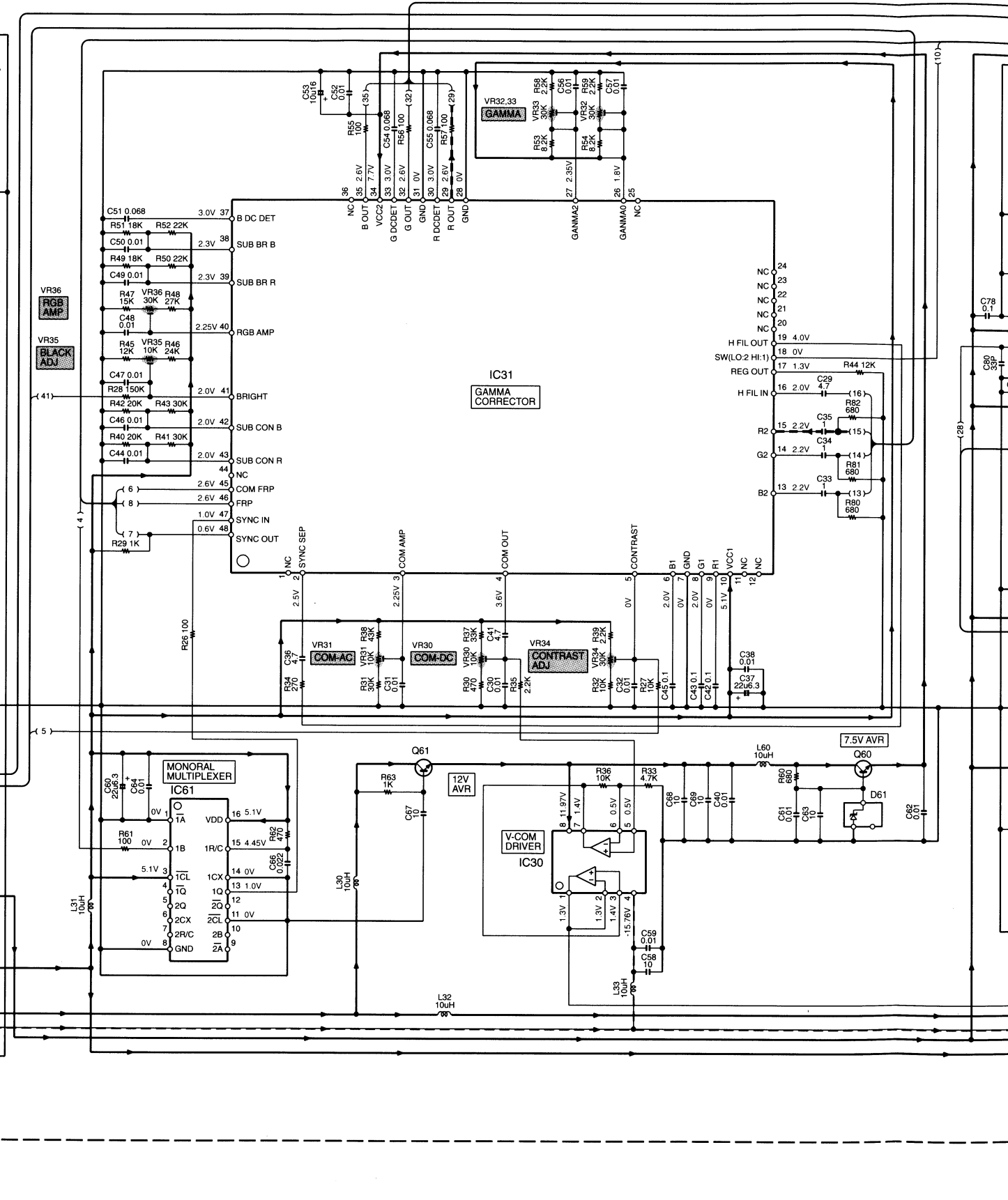
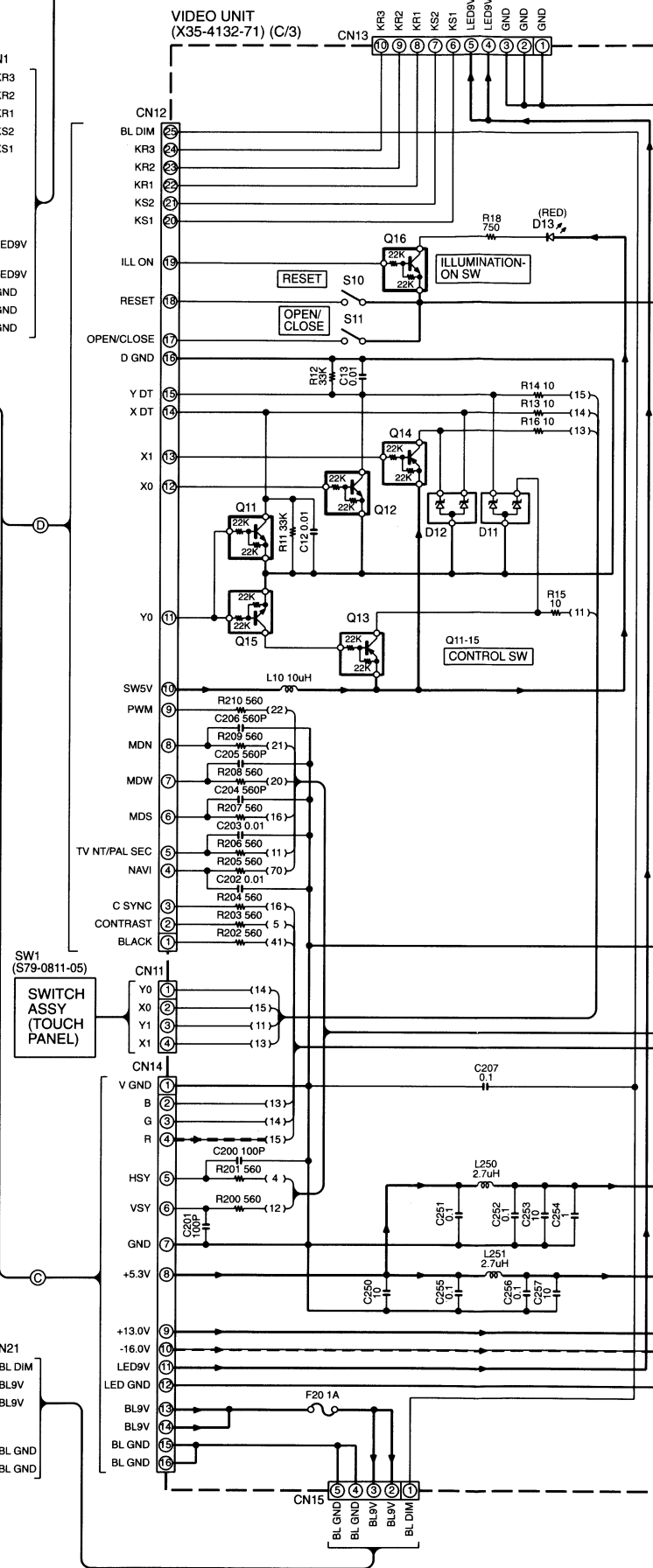
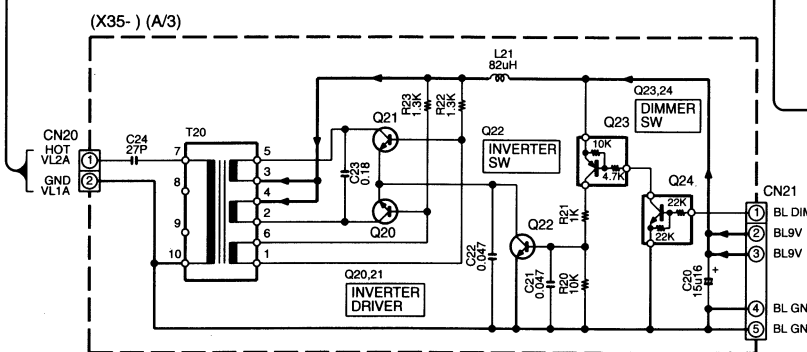
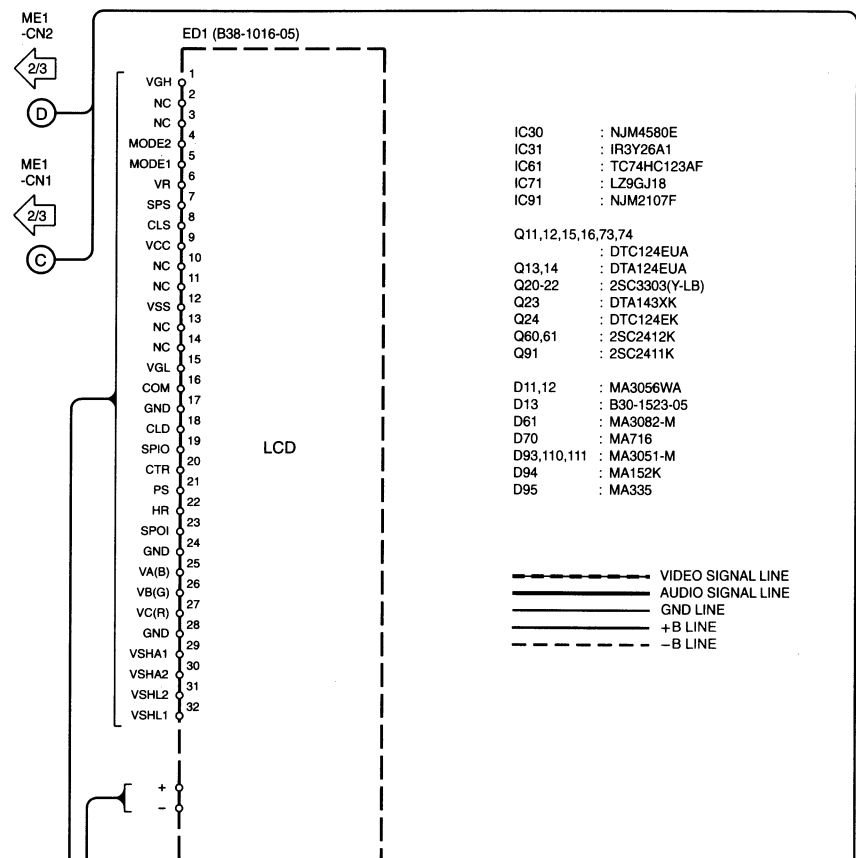
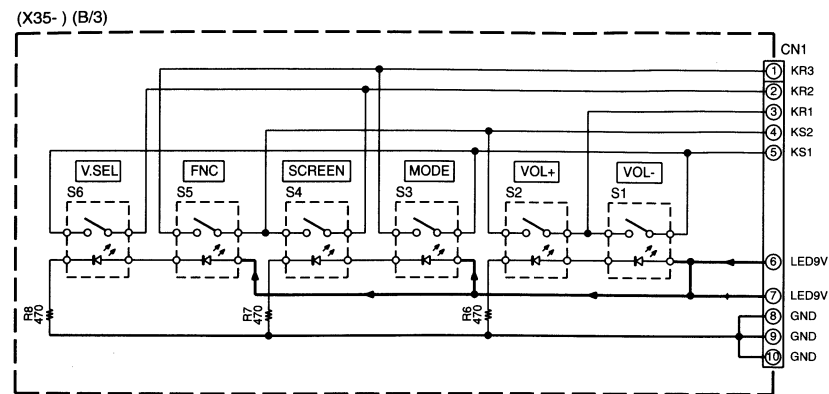
VIDEO CONTROL UNIT (X14-6072-70) (B/3)

ME1 (D40-1133-05)

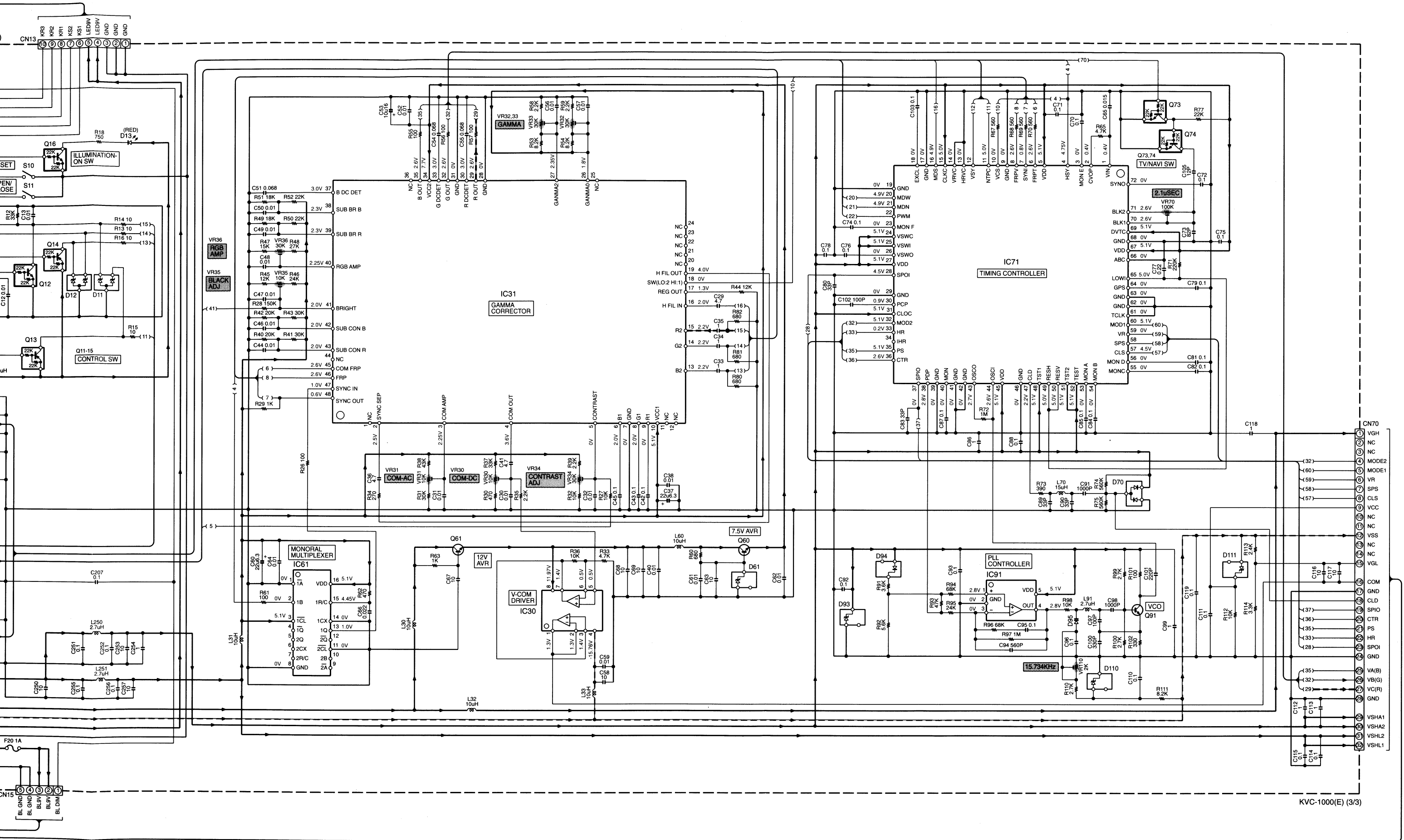




NJM2107F

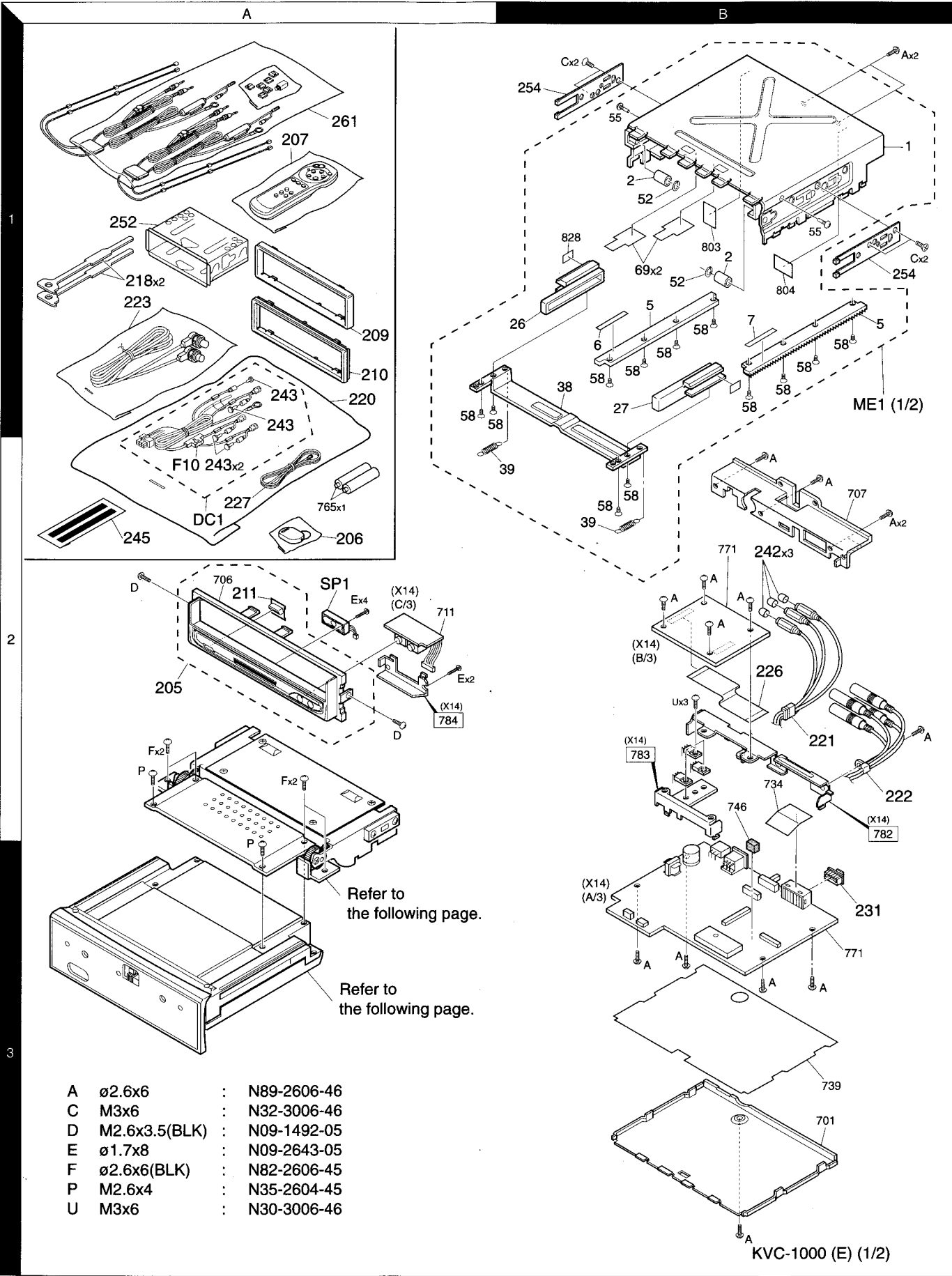


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

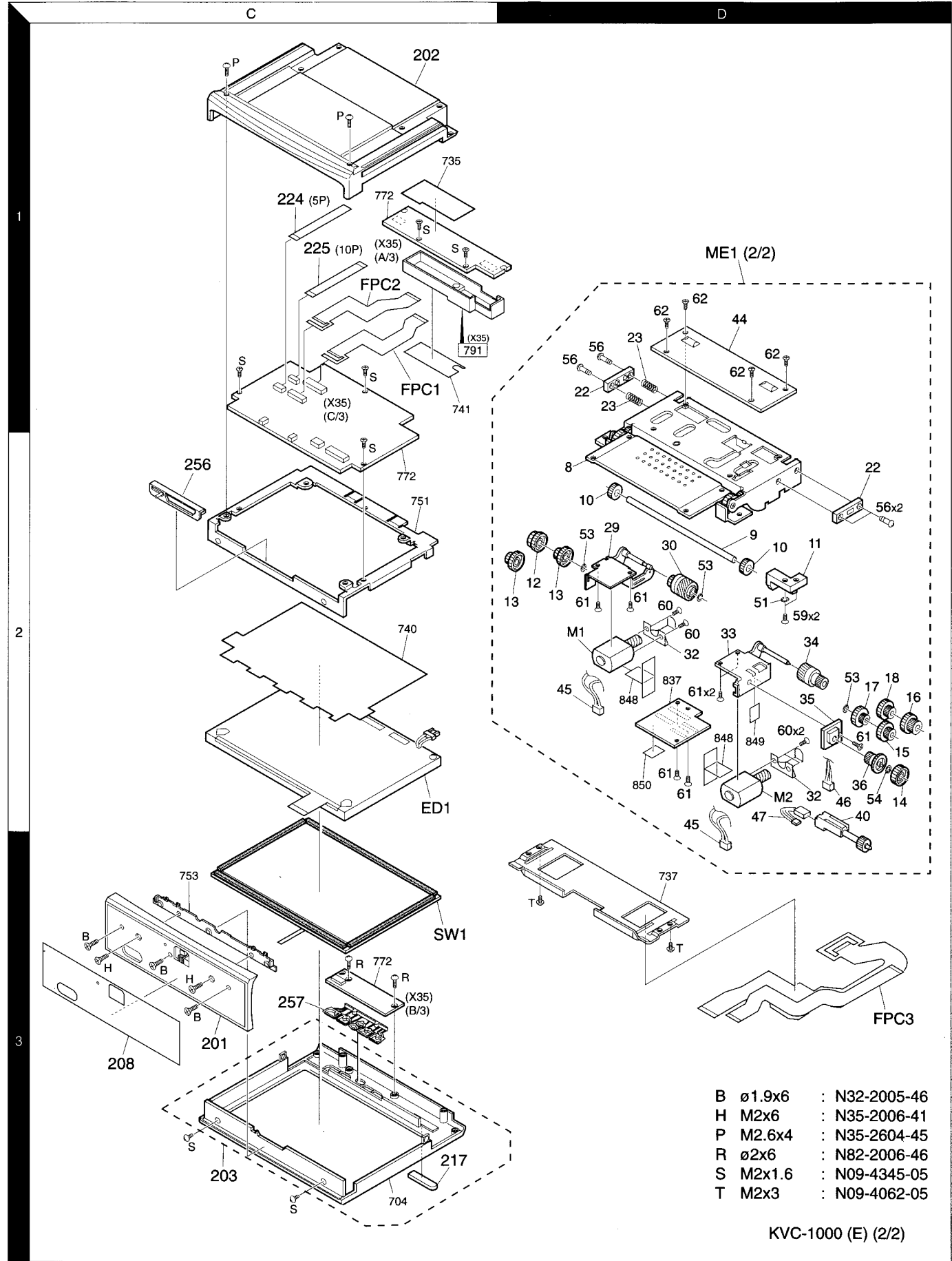


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

EXPLODED VIEW



EXPLODED VIEW



* New Parts
Parts without Part
Les articles non m
Teile ohne Parts N

Ref. No.	A	N	d	e	w
201	3C	*			
202	1C	*			
203	3C	*			
205	2A	*			
206	2A	*			
207	1A	*			
208	3C	*			
209	1A	*			
210	1A	*			
211	2A	*			
217	3C	*			
ED1	2C	*			
218	1A	*			
ME1	1B	*			
220	1A	*			
221	2B	*			
222	2B	*			
223	1A	*			
224	1C	*			
225	1C	*			
226	2B	*			
227	2A	*			
DC1	2A	*			
231	3B	*			
242	2B	*			
243	1A	*			
F10	2A	*			
245	2A	*			
252	1A	*			
254	1B	*			
FPC1	1C	*			
FPC2	1C	*			
FPC3	3D	*			
256	2C	*			
257	3C	*			
A	2B	*			
B	3C	*			
C	1B	*			
D	1A	*			

KVC-1000

KVC-1000

EXPLODED VIEW

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

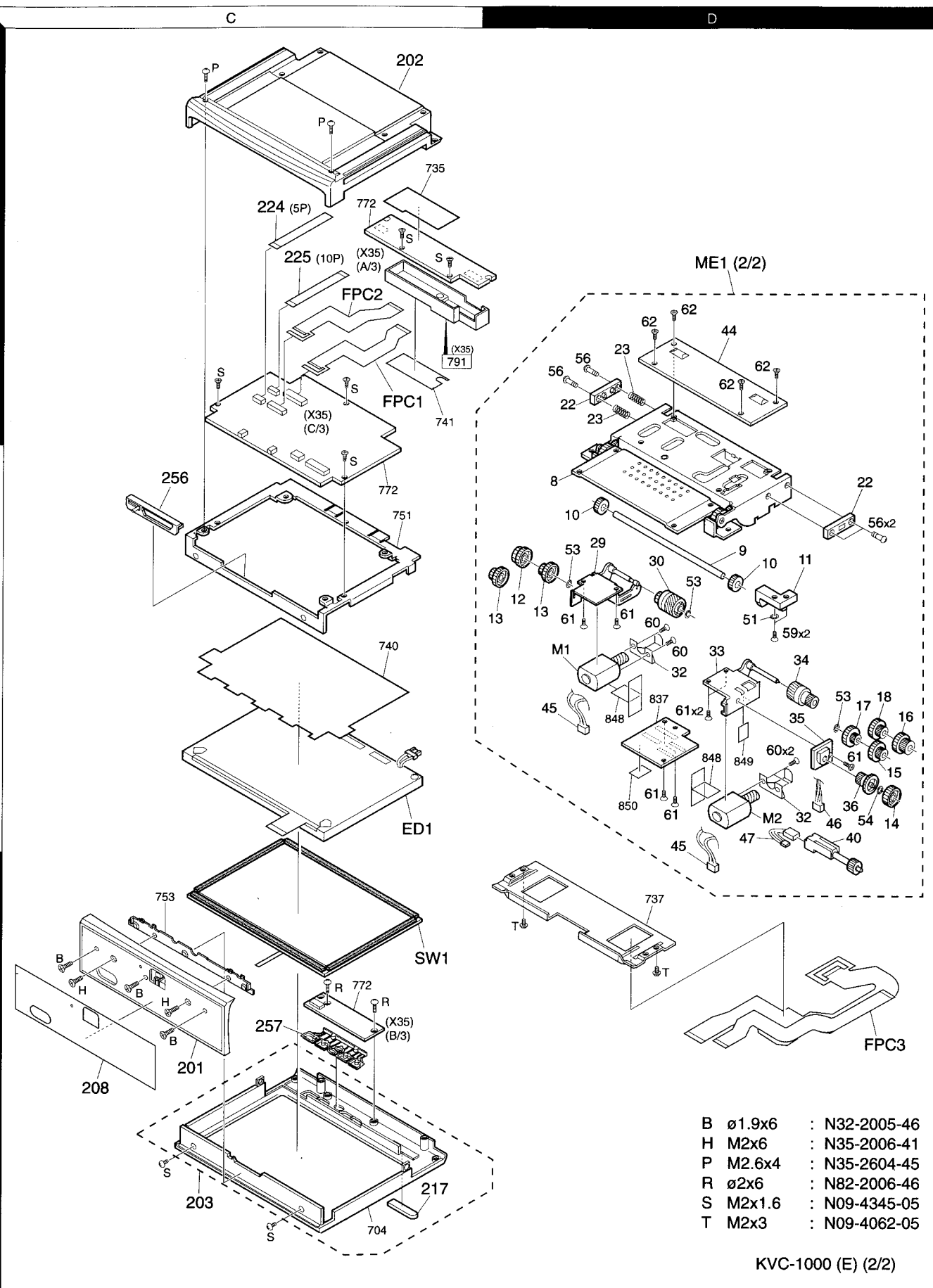
Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
KVC-1000					
201	3C	*	A21-4005-02	DRESSING PANEL	
202	1C	*	A46-1646-01	REAR COVER	
203	3C	*	A64-1818-02	PANEL ASSY	
205	2A	*	A64-1822-03	PANEL ASSY	
206	2A	*	A70-0886-05	REMOTE CONTROLLER (Smaller one)	
207	1A	*	A70-2002-05	REMOTE CONTROLLER (Larger one)	
208	3C	*	B03-3055-04	DRESSING PLATE	
209	1A	*	B07-2177-02	ESCUTCHEON (Thicker one)	
210	1A	*	B07-2178-02	ESCUTCHEON (Thinner one)	
211	2A	*	B10-3073-04	FRONT GLASS	
217	3C	*	B43-1240-04	KENWOOD BADGE	
-	-	-	B46-0100-50	WARRANTY CARD	
-	-	-	B46-0612-14	ID CARD	
-	-	-	* B64-1454-00	INST. MANUAL (ENGLISH,FRENCH)	
-	-	-	* B64-1455-00	INST. MANUAL (GERMAN,DUTCH)	
-	-	-	* B64-1456-00	INST. MANUAL (ITALIAN,SPANISH)	
-	-	-	* B64-1457-00	INST. MANUAL (PORTUGUESE)	
ED1	2C	*	B38-1016-05	LIQUID CRYSTAL	
218	1A	*	D10-4395-04	LEVER	
ME1	1B	*	D40-1133-05	MECHANISM ASSY	
220	1A	*	E30-4744-05	DC CORD ASSY	
221	2B	*	E30-4745-05	CORD WITH CONNECTOR	
222	2B	*	E30-4746-05	CORD WITH PLUG	
223	1A	*	E30-4747-05	CONNECTING CORD ASSY	
224	1C	*	E39-0309-05	FLAT CABLE (5-PIN)	
225	1C	*	E39-0310-05	FLAT CABLE (10-PIN)	
226	2B	*	E39-0311-05	FLAT CABLE (26-PIN)	
227	2A	*	E30-4777-08	CONNECTING CORD	
DC1	2A	*	E30-4776-08	DC CORD	
231	3B	*	F07-1079-05	COVER	
242	2B	*	F29-0049-05	INSULATING COVER	
243	1A	*	F29-0079-05	TERMINAL COVER	
F10	2A	*	F52-0004-05	FUSE (5A)	
245	2A	*	G11-1860-05	CUSHION	
-	-	-	* H10-4667-02	POLYSTYRENE FOAMED FIXTURE	
-	-	-	* H10-4668-02	POLYSTYRENE FOAMED FIXTURE	
-	-	-	H25-0337-04	PROTECTION BAG (180X300X0.03)	
-	-	-	H25-1115-04	PROTECTION BAG	
-	-	-	* H54-1513-03	ITEM CARTON CASE	
252	1A	*	J21-7881-03	MOUNTING HARDWARE ASSY	
254	1B	*	J21-9473-04	MOUNTING HARDWARE	
FPC1	1C	*	J84-0102-03	FLEX. PRINTED WIRING BOARD	
FPC2	1C	*	J84-0103-03	FLEX. PRINTED WIRING BOARD	
FPC3	3D	*	J84-0108-03	FLEX. PRINTED WIRING BOARD	
256	2C	*	K25-1075-13	KNOB	
257	3C	*	K25-1076-23	KNOB (MODE/SCRN,FNC/V.SEL)	
A	2B	*	N89-2606-46	BINDING HEAD TAPTITE SCREW	
B	3C	*	N32-2005-46	FLAT HEAD MACHIN SCREW	
C	1B	*	N32-3006-46	FLAT HEAD MACHIN SCREW	
D	1A	*	N09-1492-05	MACHINE SCREW (2.6X3.5)	

E : Europe K : North America M : Other Areas
W : Without Europe

30



KVC-1000 (E) (2/2)

Parts with exploded numbers larger than 700 are not supplied.

29

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
E	2A	*	N09-2643-05	MACHINE SCREW	
F	2A	*	N82-2606-45	BINDING HEAD TAPTITE SCREW	
H	3C	*	N35-2006-41	BINDING HEAD MACHINE SCREW	
P	2A	*	N35-2604-45	BINDING HEAD MACHINE SCREW	
R	3C	*	N82-2006-46	BINDING HEAD TAPTITE SCREW	
S	1C	*	N09-4345-05	MACHINE SCREW (M2X1.6)	
T	3D	*	N09-4062-05	TAPTITE SCREW (2X3)	
SW1	3C	*	S79-0811-05	SWITCH ASSY (TOUCH PANEL)	
261	1A	*	T90-0518-05	ANTENNA ASSY	
SP1	2A	*	T19-0258-05	SPEAKER SYSTEM	
VIDEO CONTROL UNIT (X14-6072-70)					
C1			CK73GB1H103K	CHIP C 0.010UF	K
C2			C90-2843-05	ELECTRO 2200UF	16WV
C3			CK73GB1C104K	CHIP C 0.10UF	K
C4			CK73GB1H103K	CHIP C 0.010UF	K
C5			CE04NW1H2R2M	ELECTRO 2.2UF	50WV
C6			CK73GB1H223K	CHIP C 0.022UF	K
C7			CK73EB1C105K	CHIP C 1.0UF	K
C8			CE04NW0J221M	ELECTRO 220UF	6.3WV
C9			CE04DW1A221M	ELECTRO 220UF	10WV
C10			CE04NW1C100M	ELECTRO 10UF	16WV
C11			CK73GB1H103K	CHIP C 0.010UF	K
C12			CE04NW0J101M	ELECTRO 100UF	6.3WV
C13			CE04NW1C100M	ELECTRO 10UF	16WV
C14 -16			CE04NW1C470M	ELECTRO 47UF	16WV
C18			CK73GB1H103K	CHIP C 0.010UF	K
C20,21			CC73GCH1H101J	CHIP C 100PF	J
C22,23			CC73GCH1H220J	CHIP C 22PF	J
C24			CK73GB1C104K	CHIP C 0.10UF	K
C26,27			CK73GB1H103K	CHIP C 0.010UF	K
C28			CE04NW1C100M	ELECTRO 10UF	16WV
C29			CK73GB1H103K	CHIP C 0.010UF	K
C30			CK73GB1H222K	CHIP C 2200PF	K
C31			CE04NW1C100M	ELECTRO 10UF	16WV
C32,33			CK73GB1C104K	CHIP C 0.10UF	K
C101,102			C90-2599-05	ELECTRO 4.7UF	25WV
C103,104			CK73GB1H222K	CHIP C 2200PF	K
C105,106			C90-2610-05	ELECTRO 2.2UF	50WV
C107			CE04CW0J220M	ELECTRO 22UF	6.3WV
C108			CK73GB1H103K	CHIP C 0.010UF	K
C109,110			C90-2597-05	ELECTRO 10UF	16WV
C111,112			CK73EB1C225K	CHIP C 2.2UF	K
C113			CE04CW0J220M	ELECTRO 22UF	6.3WV
C114			CK73GB1H103K	CHIP C 0.010UF	K
C115-117			C90-2597-05	ELECTRO 10UF	16WV
C118-120			CK73GB1H103K	CHIP C 0.010UF	K
C122			CK73GB1H103K	CHIP C 0.010UF	K
C123,124			CK73GB1C104K	CHIP C 0.10UF	K
C125			CK73GB1H223K	CHIP C 0.022UF	K
C126			CK73GB1H103K	CHIP C 0.010UF	K
C127			CE04NW1C100M	ELECTRO 10UF	16WV
C128			CK73GB1H222K	CHIP C 2200PF	K
C129			CE04NW1C100M	ELECTRO 10UF	16WV

⚠ indicates safety critical components.

KVC-1000

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

(X14-6072-70)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C130			CK73GB1C104K	CHIP C 0.10UF K	
C131			CK73GB1C473K	CHIP C 0.047UF K	
C132			CE04NW1C470M	ELECTRO 47UF 16WV	
C133			CK73GB1C473K	CHIP C 0.047UF K	
C134			CE04NW1C100M	ELECTRO 10UF 16WV	
C135			CK73GB1A224K	CHIP C 0.22UF K	
C136			CK73GB1H223K	CHIP C 0.022UF K	
C137			CK73GB1C104K	CHIP C 0.10UF K	
C138			CK73GB1A224K	CHIP C 0.22UF K	
C139			CC73GCH1H181J	CHIP C 180PF J	
C140			CK73GB1H102K	CHIP C 1000PF K	
C141			CK73GB1H821K	CHIP C 820PF K	
C142			CK73GB1H103K	CHIP C 0.010UF K	
C143			CK73GB1H102K	CHIP C 1000PF K	
C144			CC73GCH1H121J	CHIP C 120PF J	
C145			CK73GB1C473K	CHIP C 0.047UF K	
C146			CK73GB1A224K	CHIP C 0.22UF K	
C147			CK73FB1A105K	CHIP C 1.0UF K	
C148			CE04CWJ220M	ELECTRO 22UF 6.3WV	
C149,150			C90-2610-05	ELECTRO 2.2UF 50WV	
C151			CK73GB1H103K	CHIP C 0.010UF K	
C152			CE04NW1C470M	ELECTRO 47UF 16WV	
C153			CK73GB1H103K	CHIP C 0.010UF K	
C154			CE04NW1C470M	ELECTRO 47UF 16WV	
C155-157			CK73GB1C104K	CHIP C 0.10UF K	
C201			CK73GB1H472K	CHIP C 4700PF K	
C202			CK73GB1H332K	CHIP C 3300PF K	
C203			CK73GB1H103K	CHIP C 0.010UF K	
C204			CK73GB1H223K	CHIP C 0.022UF K	
C205-208			CC73GCH1H101J	CHIP C 100PF J	
C209-212			CK73GB1H102K	CHIP C 1000PF K	
C213			CE04NWJ470M	ELECTRO 47UF 6.3WV	
C214			CK73GB1H103K	CHIP C 0.010UF K	
C215-218			CC73GCH1H101J	CHIP C 100PF J	
C219			CC73GCH1H330J	CHIP C 33PF J	
C220,221			CK73GB1H103K	CHIP C 0.010UF K	
C222			CK73GB1H222K	CHIP C 2200PF K	
C223			CK73GB1H103K	CHIP C 0.010UF K	
C224			CK73GB1C104K	CHIP C 0.10UF K	
C225			CK73GB1H103K	CHIP C 0.010UF K	
C226			CE04NW1C470M	ELECTRO 47UF 16WV	
C227			CK73GB1C104K	CHIP C 0.10UF K	
C228			CE04CWJ331M	ELECTRO 330UF 6.3WV	
C229-232			CK73GB1C104K	CHIP C 0.10UF K	
C233			CK73GB1H472K	CHIP C 4700PF K	
C234			CK73GB1C473K	CHIP C 0.047UF K	
C235			C90-2610-05	ELECTRO 2.2UF 50WV	
C236			CK73GB1H223K	CHIP C 0.022UF K	
C237			CE04NW1C470M	ELECTRO 47UF 16WV	
C238,239			CK73GB1H103K	CHIP C 0.010UF K	
C240			C90-2597-05	ELECTRO 10UF 16WV	
C241			CK73GB1C473K	CHIP C 0.047UF K	
C242			CK73GB1H103K	CHIP C 0.010UF K	
C243			CE04NW1E4R7M	ELECTRO 4.7UF 25WV	
C245			CK73GB1C473K	CHIP C 0.047UF K	

E : Europe K : North America M : Other Areas
W : Without Europe

⚠ indicates safety critical components.

31

KVC-1000

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

(X14-6072-70)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C325			CC73GCH1H561J	CHIP C 560PF J	
C326			CE04NW1H3R3M	ELECTRO 3.3UF 50WV	
C327			CC73GCH1H121J	CHIP C 120PF J	
C328			CK73GB1H103K	CHIP C 0.010UF K	
C329			CK73GB1H222K	CHIP C 2200PF K	
C330			CC73GCH1H101J	CHIP C 100PF J	
C331			CK73GB1C104K	CHIP C 0.10UF K	
C332			CK73GB1H561K	CHIP C 560PF K	
C333			CK73FB1A105K	CHIP C 1.0UF K	
C334			CK73GB1H392K	CHIP C 3900PF K	
C335-341			CK73GB1C104K	CHIP C 0.10UF K	
C342			CC73GCH1H100D	CHIP C 10PF D	
C501			CE04DW1H220M	ELECTRO 22UF 50WV	
C502			C90-2969-05	ELECTRO 150UF 16WV	
C503			CK73GB1H103K	CHIP C 0.010UF K	
C504			C90-2969-05	ELECTRO 150UF 16WV	
C505			CK73GF1E104Z	CHIP C 0.10UF Z	
C506			CK73GB1H472K	CHIP C 4700PF K	
C507			C90-2966-05	ELECTRO 100UF 16WV	
C508			CE04NW1H010M	ELECTRO 1.0UF 50WV	
C509			CK73GF1E104Z	CHIP C 0.10UF Z	
C510			C90-2968-05	ELECTRO 330UF 6.3WV	
C511			CE04DWJ221M	ELECTRO 220UF 6.3WV	
C512			CK73GB1C104K	CHIP C 0.10UF K	
C513,514			C90-2963-05	ELECTRO 100UF 25WV	
C515			CK73GB1H103K	CHIP C 0.010UF K	
C516			CK73GB1H331K	CHIP C 330PF K	
C517			CK73GB1H682K	CHIP C 6800PF K	
C518,519			C90-2957-05	ELECTRO 470UF 16WV	
C520			CE04NW1C100M	ELECTRO 10UF 16WV	
C521			C90-2957-05	ELECTRO 470UF 16WV	
C522			CK73GB1C104K	CHIP C 0.10UF K	
C523			CE04NW1C100M	ELECTRO 10UF 16WV	
C524			CK73GB1H103K	CHIP C 0.010UF K	
C525			CK73GF1E104Z	CHIP C 0.10UF Z	
C526,527			CK73GB1C104K	CHIP C 0.10UF K	
C528			CC73GCH1H561J	CHIP C 560PF J	
C529,530			CK73GB1H223K	CHIP C 0.022UF K	
C531			CK73GB1H103K	CHIP C 0.010UF K	
C532			CE04NW1C100M	ELECTRO 10UF 16WV	
C533			CK73GB1H331K	CHIP C 330PF K	
C534			CK73GB1C104K	CHIP C 0.10UF K	
C535			CE04NW1C100M	ELECTRO 10UF 16WV	
C536			CK73GB1H103K	CHIP C 0.010UF K	
C537			CK73GB1C104K	CHIP C 0.10UF K	
C538-540			CK73GF1E104Z	CHIP C 0.10UF Z	
C541,542			CK73GB1C104K	CHIP C 0.10UF K	
C543-546			CK73GF1E104Z	CHIP C 0.10UF Z	
C547			CK73GB1C104K	CHIP C 0.10UF K	
C548			CK73GB1H103K	CHIP C 0.010UF K	
C549			CE04NW1C100M	ELECTRO 10UF 16WV	
C550			CK73GB1H103K	CHIP C 0.010UF K	
C554			CC73GCH1H561J	CHIP C 560PF J	
CN1			E40-3240-05	PIN ASSY	

E : Europe K : North America M : Other Areas
W : Without Europe

⚠ indicates safety critical components.

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PARTS LIST

* New Parts

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Teile ohne Parts No. werden nicht geliefert.

(X14-6072-70)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
CP1			R90-0724-05	MULTI-COMP 1K X4	
CP2			R90-0722-05	MULTI-COMP 2.2K X4	
CP3			R90-0724-05	MULTI-COMP 1K X4	
R1 ,2			RK73EB2B123J	CHIP R 12K J 1/8W	
R3			RK73EB2B103J	CHIP R 10K J 1/8W	
R4		*	R92-3095-05	CARBON FILM2.2K J 1/2W	
R5			RK73EB2B183J	CHIP R 18K J 1/8W	
R6 -8			RK73GB1J223J	CHIP R 22K J 1/16W	
R9			RK73GB1J183J	CHIP R 18K J 1/16W	
R10			RK73GB1J393J	CHIP R 39K J 1/16W	
R11			RK73GB1J473J	CHIP R 47K J 1/16W	
R12 ,13			RK73GB1J104J	CHIP R 100K J 1/16W	
R14			RK73GB1J473J	CHIP R 47K J 1/16W	
R15			RK73GB1J103J	CHIP R 10K J 1/16W	
R16			RK73GB1J104J	CHIP R 100K J 1/16W	
R17			RK73GB1J223J	CHIP R 22K J 1/16W	
R18			R92-2063-05	CHIP R 680 J 1/2W	
R19			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R20			RK73FB2A222J	CHIP R 2.2K J 1/10W	
R21			RK73FB2A681J	CHIP R 680 J 1/10W	
R22			RK73GB1J470J	CHIP R 47 J 1/16W	
R23			RK73GB1J392J	CHIP R 3.9K J 1/16W	
R24			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R25 -27			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R28 -30			RK73GB1J473J	CHIP R 47K J 1/16W	
R31 ,32			RK73GB1J104J	CHIP R 100K J 1/16W	
R33 -36			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R37			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R38 ,39			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R40 ,41			RK73GB1J223J	CHIP R 22K J 1/16W	
R42 -44			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R45 ,46			RK73GB1J104J	CHIP R 100K J 1/16W	
R47			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R49			RK73GB1J104J	CHIP R 100K J 1/16W	
R50 -52			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R53			RK73GB1J101J	CHIP R 100 J 1/16W	
R54			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R55 ,56			RK73GB1J562J	CHIP R 5.6K J 1/16W	
R57			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R58 ,59			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R60			RK73GB1J684J	CHIP R 680K J 1/16W	
R61 ,62			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R63 ,64			RK73GB1J473J	CHIP R 47K J 1/16W	
R65			RK73GB1J220J	CHIP R 22 J 1/16W	
R66			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R67 ,68			RK73GB1J473J	CHIP R 47K J 1/16W	
R69			RK73GB1J220J	CHIP R 22 J 1/16W	
R70			RK73GB1J221J	CHIP R 220 J 1/16W	
R71			RK73GB1J104J	CHIP R 100K J 1/16W	
R72			RK73GB1J473J	CHIP R 47K J 1/16W	
R73			RK73GB1J104J	CHIP R 100K J 1/16W	
R74			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R75			RK73GB1J103J	CHIP R 10K J 1/16W	
R76			RK73GB1J473J	CHIP R 47K J 1/16W	
R78			RK73GB1J104J	CHIP R 100K J 1/16W	
R80 ,81			RK73EB2B101J	CHIP R 100 J 1/8W	
R82 -87			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R88 -93			RK73EB2B101J	CHIP R 100 J 1/8W	
R94			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R101			RK73GB1J224J	CHIP R 220K J 1/16W	
R102-105			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R106			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R107 ,108			RK73EB2B101J	CHIP R 100 J 1/8W	
R109			RK73GB1J473J	CHIP R 47K J 1/16W	
R110-116			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R117 ,118			RK73GB1J101J	CHIP R 100 J 1/16W	
R119 ,120			RK73GB1J223J	CHIP R 22K J 1/16W	
R123 ,124			RK73GB1J471J	CHIP R 470 J 1/16W	
R125-130			RK73GB1J473J	CHIP R 47K J 1/16W	
R131 ,132			RK73GB1J103J	CHIP R 10K J 1/16W	
R133			RK73GB1J473J	CHIP R 47K J 1/16W	
R134			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R135			RK73GB1J273J	CHIP R 27K J 1/16W	
R136			RK73GB1J123J	CHIP R 12K J 1/16W	
R137			RK73GB1J682J	CHIP R 6.8K J 1/16W	
R138			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R139			RK73GB1J243J	CHIP R 24K J 1/16W	
R140			RK73GB1J103J	CHIP R 10K J 1/16W	
R141 ,142			RK73GB1J223J	CHIP R 22K J 1/16W	
R143			RK73GB1J153J	CHIP R 15K J 1/16W	
R144			RK73GB1J683J	CHIP R 68K J 1/16W	
R145			RK73GB1J273J	CHIP R 27K J 1/16W	
R146 ,147			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R148			RK73GB1J104J	CHIP R 100K J 1/16W	
R149 ,150			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R151			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R152			RK73FB2A561J	CHIP R 560 J 1/10W	
R153			RK73GB1J104J	CHIP R 100K J 1/16W	
R201			RK73GB1J105J	CHIP R 1.0M J 1/16W	
R202			RK73GB1J101J	CHIP R 100 J 1/16W	
R203			RK73GB1J473J	CHIP R 47K J 1/16W	
R204 ,205			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R206 ,207			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R208-211			RK73GB1J101J	CHIP R 100 J 1/16W	
R212			RK73GB1J822J	CHIP R 8.2K J 1/16W	
R213			RK73GB1J333J	CHIP R 33K J 1/16W	
R215			RK73GB1J223J	CHIP R 22K J 1/16W	
R216			RK73GB1J471J	CHIP R 470 J 1/16W	
R217 ,218			RK73GB1J103J	CHIP R 10K J 1/16W	
R219 ,220			RK73GB1J750J	CHIP R 75 J 1/16W	
R221			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R222			RK73GB1J822J	CHIP R 8.2K J 1/16W	
R223			RK73GB1J473J	CHIP R 47K J 1/16W	
R224			RK73GB1J391J	CHIP R 390 J 1/16W	
R225 ,226			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R228			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R229			RK73GB1J391J	CHIP R 390 J 1/16W	
R230			RK73GB1J104J	CHIP R 100K J 1/16W	
R231			RK73GB1J334J	CHIP R 330K J 1/16W	
R232			RK73GB1J471J	CHIP R 470 J 1/16W	

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⚠ indicates safety critical components.

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PARTS LIST

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(X14-6072-70)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R233,234			RK73GB1J102J	CHIP R 1.0K J 1/16W		R319			RK73GB1J151J	CHIP R 150 J 1/16W	
R235			RK73GB1J471J	CHIP R 470 J 1/16W		R320			RK73GB1J123J	CHIP R 12K J 1/16W	
R236			RK73GB1J470J	CHIP R 47 J 1/16W		R321			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R240			RK73GB1J471J	CHIP R 470 J 1/16W		R322			RK73GB1J681J	CHIP R 680 J 1/16W	
R241			RK73GB1J102J	CHIP R 1.0K J 1/16W		R323			RK73GB1J470J	CHIP R 47 J 1/16W	
R242			RK73GB1J153J	CHIP R 15K J 1/16W		R324			RK73GB1J272J	CHIP R 2.7K J 1/16W	
R244			RK73GB1J121J	CHIP R 120 J 1/16W		R325			RK73GB1J103J	CHIP R 10K J 1/16W	
R246			RK73GB1J682J	CHIP R 6.8K J 1/16W		R326			RK73GB1J272J	CHIP R 2.7K J 1/16W	
R247,248			RK73GB1J103J	CHIP R 10K J 1/16W		R327,328			RK73GB1J331J	CHIP R 330 J 1/16W	
R249			RK73GB1J121J	CHIP R 120 J 1/16W		R329			RK73GB1J104J	CHIP R 100K J 1/16W	
R252			RK73GB1J472J	CHIP R 4.7K J 1/16W		R330			RK73GB1J823J	CHIP R 82K J 1/16W	
R253			RK73GB1J391J	CHIP R 390 J 1/16W		R331			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R254			RK73GB1J223J	CHIP R 22K J 1/16W		R332			RK73GB1J561J	CHIP R 560 J 1/16W	
R256			RK73GB1J103J	CHIP R 10K J 1/16W		R334			RK73GB1J334J	CHIP R 330K J 1/16W	
R257			RK73GB1J222J	CHIP R 2.2K J 1/16W		R335			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R258			RK73GB1J393J	CHIP R 39K J 1/16W		R336			RK73GB1J473J	CHIP R 47K J 1/16W	
R259			RK73GB1J470J	CHIP R 47 J 1/16W		R337			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R260			RK73GB1J103J	CHIP R 10K J 1/16W		R338			RK73GB1J223J	CHIP R 22K J 1/16W	
R262			RK73GB1J103J	CHIP R 10K J 1/16W		R501			RK73EB2B102J	CHIP R 1.0K J 1/8W	
R263,264			RK73GB1J472J	CHIP R 4.7K J 1/16W		R503			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R265			RK73GB1J470J	CHIP R 47 J 1/16W		R504			RK73GB1J334J	CHIP R 330K J 1/16W	
R266			RK73GB1J334J	CHIP R 330K J 1/16W		R505			RK73GB1J101J	CHIP R 100 J 1/16W	
R267			RK73GB1J103J	CHIP R 10K J 1/16W		R506			RK73GB1J223J	CHIP R 22K J 1/16W	
R268			RK73GB1J121J	CHIP R 120 J 1/16W		R507			RK73GB1J181J	CHIP R 180 J 1/16W	
R269			RK73GB1J103J	CHIP R 10K J 1/16W		R508			RK73GB1J104J	CHIP R 100K J 1/16W	
R270			RK73GB1J151J	CHIP R 150 J 1/16W		R509			RK73GB1J471J	CHIP R 470 J 1/16W	
R271			RK73GB1J273J	CHIP R 27K J 1/16W		R511			RK73GB1J121J	CHIP R 120 J 1/16W	
R272			RK73GB1J104J	CHIP R 100K J 1/16W		R512			RN73GH1J112D	CHIP R 1.1K D 1/16W	
R273			RK73GB1J223J	CHIP R 22K J 1/16W		R513			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R274			RK73GB1J121J	CHIP R 120 J 1/16W		R514			RN73GH1J103D	CHIP R 10K D 1/16W	
R275			RK73GB1J681J	CHIP R 680 J 1/16W		R515			RK73GB1J103J	CHIP R 10K J 1/16W	
R277			RK73GB1J153J	CHIP R 15K J 1/16W		R516			R92-2021-05	CHIP R 2.2 J 1/2W	
R278			RK73GB1J123J	CHIP R 12K J 1/16W		R517			RK73GB1J471J	CHIP R 470 J 1/16W	
R279			RK73GB1J393J	CHIP R 39K J 1/16W		R518			RK73GB1J122J	CHIP R 1.2K J 1/16W	
R281			RK73GB1J104J	CHIP R 100K J 1/16W		R519			RK73GB1J333J	CHIP R 33K J 1/16W	
R282			RK73GB1J273J	CHIP R 27K J 1/16W		R520			RN73GH1J182D	CHIP R 1.8K D 1/16W	
R283			RK73GB1J471J	CHIP R 470 J 1/16W		R521			R92-2021-05	CHIP R 2.2 J 1/2W	
R284			RK73GB1J470J	CHIP R 47 J 1/16W		R522			RK73GB1J122J	CHIP R 1.2K J 1/16W	
R285			RK73GB1J222J	CHIP R 2.2K J 1/16W		R523			RK73GB1J471J	CHIP R 470 J 1/16W	
R286			RK73GB1J471J	CHIP R 470 J 1/16W		R524			RN73GH1J333D	CHIP R 33K D 1/16W	
R287-289			RK73GB1J561J	CHIP R 560 J 1/16W		R525			RK73GB1J824J	CHIP R 820K J 1/16W	
R290-293			RK73GB1J750J	CHIP R 75 J 1/16W		R526			RK73GB1J334J	CHIP R 330K J 1/16W	
R301			RK73GB1J333J	CHIP R 33K J 1/16W		R527			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R302			RK73GB1J473J	CHIP R 47K J 1/16W		R528			RN73GH1J182D	CHIP R 1.8K D 1/16W	
R303			RK73GB1J682J	CHIP R 6.8K J 1/16W		R529-533			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R304			RK73GB1J272J	CHIP R 2.7K J 1/16W		R534			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R305			RK73GB1J102J	CHIP R 1.0K J 1/16W		R535			RK73GB1J334J	CHIP R 330K J 1/16W	
R306			RK73GB1J563J	CHIP R 56K J 1/16W		R536			RK73GB1J821J	CHIP R 820 J 1/16W	
R307			RK73GB1J333J	CHIP R 33K J 1/16W		R537			RK73GB1J822J	CHIP R 8.2K J 1/16W	
R308			RK73GB1J682J	CHIP R 6.8K J 1/16W		R538			RK73GB1J471J	CHIP R 470 J 1/16W	
R309			RK73GB1J273J	CHIP R 27K J 1/16W		R539			RK73GB1J392J	CHIP R 3.9K J 1/16W	
R310			RK73GB1J103J	CHIP R 10K J 1/16W		R540			RK73GB1J471J	CHIP R 470 J 1/16W	
R312-314			RK73GB1J104J	CHIP R 100K J 1/16W		R541			RK73GB1J392J	CHIP R 3.9K J 1/16W	
R315			RK73GB1J103J	CHIP R 10K J 1/16W		R542			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R316-318			RK73GB1J222J	CHIP R 2.2K J 1/16W		R543			RK73GB1J562J	CHIP R 5.6K J 1/16W	

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PARTS LIST

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(X14-6072-70)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R544			RK73GB1J471J	CHIP R 470 J 1/16W	
R545			RK73GB1J392J	CHIP R 3.9K J 1/16W	
R546-548			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R549			RK73GB1J470J	CHIP R 47 J 1/16W	
R550-552			RK73GB1J103J	CHIP R 10K J 1/16W	
R553			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R554-557			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R558			RK73GB1J470J	CHIP R 47 J 1/16W	
R559			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R560			RN73GH1J561D	CHIP R 560 D 1/16W	
R561			RK73GB1J103J	CHIP R 10K J 1/16W	
VR201			R32-0234-05	SEMI FIXED VARIABLE R. (
W1			R92-1252-05	CHIP R 0 OHM	
S1			S62-0847-05	SLIDE SWITCH	
BZ1			T95-0228-05	PIEZOELECTRIC VIBRATOR	
D1 ,2			RD6.8M(B2)	ZENER DIODE	
D3			AM01Z	DIODE	
D4			DAN202U	DIODE	
D5			D1F60	DIODE	
D6			DAN202U	DIODE	
D7			RD5.1M(B2)	ZENER DIODE	
D8			MA3091-M	ZENER DIODE	
D9			MA3056-M	ZENER DIODE	
D10			MA3100-L	ZENER DIODE	
D11			MA3091-M	ZENER DIODE	
D12			DA227	DIODE	
D13			DAN202U	DIODE	
D14			HZM6.8WA	ZENER DIODE	
D15			DAN202U	DIODE	
D101-103			DA204U	DIODE	
D104			MA3056WA	ZENER DIODE	
D105			DAP202U	DIODE	
D106-114			DA204U	DIODE	
D115			MA3091-M	ZENER DIODE	
D201-204		*	RN739F	DIODE	
D205,206			DA204U	DIODE	
D209			DAN235U	DIODE	
D211-214			DA204U	DIODE	
D301			DA204U	DIODE	
D302,303		*	DAP236U	DIODE	
D304			DAN202U	DIODE	
D501			1SS250	DIODE	
D502			1SS184	DIODE	
D503			SB05-03C	DIODE	
D504			MA3220-L	ZENER DIODE	
D505			DAP202U	DIODE	
D507			1SS184	DIODE	
D508			RB051L-40	DIODE	
D509			DA204U	DIODE	
D510			MA3075-M	ZENER DIODE	
D512			MA3075-M	ZENER DIODE	
D513			MA3051-M	ZENER DIODE	
IC1		*	UPD784216GC074	MI-COM IC	

E : Europe K : North America M : Other Areas
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PARTS LIST

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(X35-4132-71)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q107-109			DTC124EUA	DIGITAL TRANSISTOR	
Q110			DTC144EUA	DIGITAL TRANSISTOR	
Q111			DTA144EUA	DIGITAL TRANSISTOR	
Q112,113			DTC124EUA	DIGITAL TRANSISTOR	
Q114			2SB1203-FA	TRANSISTOR	
Q115			2SC4081	TRANSISTOR	
Q116			DTC144EUA	DIGITAL TRANSISTOR	
Q201			2SA1576A	TRANSISTOR	
Q202			DTC124EUA	DIGITAL TRANSISTOR	
Q203,204			2SC4081	TRANSISTOR	
Q205,206			DTC144EUA	DIGITAL TRANSISTOR	
Q208			DTC343TK	DIGITAL TRANSISTOR	
Q209-211			2SC4081	TRANSISTOR	
Q212			2SA1576A	TRANSISTOR	
Q213			2SC4081	TRANSISTOR	
Q214			DTC124EUA	DIGITAL TRANSISTOR	
Q215			DTC143TUA	DIGITAL TRANSISTOR	
Q216-218			DTC124EUA	DIGITAL TRANSISTOR	
Q219			2SC4081	TRANSISTOR	
Q220			2SC2714(Y)	TRANSISTOR	
Q301-304			DTC124EUA	DIGITAL TRANSISTOR	
Q305			2SC2714(Y)	TRANSISTOR	
Q306			2SC4081	TRANSISTOR	
Q501			DTA124EUA	DIGITAL TRANSISTOR	
Q502			DTC124EUA	DIGITAL TRANSISTOR	
Q503			2SC4081	TRANSISTOR	
Q504			2SC4979	TRANSISTOR	
Q505			2SB1203-FA	TRANSISTOR	
Q506			2SC4081	TRANSISTOR	
Q507			2SA1576A	TRANSISTOR	
Q508-511			2SC4081	TRANSISTOR	
Q513,514			DTC124EUA	DIGITAL TRANSISTOR	
Q515-517			2SC4081	TRANSISTOR	
A201		*	W02-3191-05	TUNER ASSY	
VIDEO UNIT (X35-4132-71)					
D13			B30-1523-05	LED	
C12 ,13			CK73GB1H103K	CHIP C 0.010UF K	
C20			C92-1362-05	ELECTRO 15UF 16WV	
C21 ,22			CK73FB1H473K	CHIP C 0.047UF K	
C23			C91-2174-05	POLYPRO 0.18UF	
C24			C93-1105-05	CERAMIC 27PF	
C29			CK73EF1C475Z	CHIP C 4.7UF Z	
C30 -32			CK73GB1H103K	CHIP C 0.010UF K	
C33 -35			CK73FF1C105Z	CHIP C 1.0UF Z	
C36			CK73EF1C475Z	CHIP C 4.7UF Z	
C37			C92-1325-05	CHIP-TAN 22UF 6.3WV	
C38			CK73GB1H103K	CHIP C 0.010UF K	
C40			CK73GB1H103K	CHIP C 0.010UF K	
C41			CK73EF1C475Z	CHIP C 4.7UF Z	
C42 ,43			CK73GF1E104Z	CHIP C 0.10UF Z	
C44			CK73GB1H103K	CHIP C 0.010UF K	
C45			CK73GF1E104Z	CHIP C 0.10UF Z	
C46 -50			CK73GB1H103K	CHIP C 0.010UF K	

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(X35-4132-71)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
CN1			E40-9623-05	FLAT CABLE CONNECTOR	
CN11			E40-9637-05	FLAT CABLE CONNECTOR	
CN12			E40-9700-05	FLAT CABLE CONNECTOR	
CN13			E40-9623-05	FLAT CABLE CONNECTOR	
CN14			E40-9404-05	FLAT CABLE CONNECTOR	
CN15			E40-9256-05	FLAT CABLE CONNECTOR	
CN20			E40-9484-05	PIN ASSY	
CN21			E40-9256-05	FLAT CABLE CONNECTOR	
CN70			E40-9699-05	FLAT CABLE CONNECTOR	
F20			F53-0140-05	FUSE (1A)	
L10			L40-1001-78	SMALL FIXED INDUCTOR (10UH)	
L21			L33-1126-05	CHOKE COIL (82UH)	
L30 -33			L40-1001-78	SMALL FIXED INDUCTOR (10UH)	
L60			L40-1001-78	SMALL FIXED INDUCTOR (10UH)	
L70			L40-1505-34	SMALL FIXED INDUCTOR (15UH)	
L91			L40-2795-34	SMALL FIXED INDUCTOR (2.7UH)	
L250,251			L40-2795-34	SMALL FIXED INDUCTOR (2.7UH)	
T20			L19-0580-05	DC/DC CONVERTER	
R6 -8			RK73EB2B471J	CHIP R 470 J 1/8W	
R11 ,12			RK73GB1J333J	CHIP R 33K J 1/16W	
R13 -16			RK73GB1J100J	CHIP R 10 J 1/16W	
R18			RK73EB2B751J	CHIP R 750 J 1/8W	
R20			RK73FB2A103J	CHIP R 10K J 1/10W	
R21			RK73FB2A102J	CHIP R 1.0K J 1/10W	
R22 ,23			RK73EB2B132J	CHIP R 1.3K J 1/8W	
R26			RK73GB1J101J	CHIP R 100 J 1/16W	
R27			RK73GB1J103J	CHIP R 10K J 1/16W	
R28			RK73GB1J154J	CHIP R 150K J 1/16W	
R29			RK73GB1J102J	CHIP R 1.0K J 1/16W	
R30			RK73GB1J471J	CHIP R 470 J 1/16W	
R31			RK73GB1J303J	CHIP R 30K J 1/16W	
R32			RK73GB1J103J	CHIP R 10K J 1/16W	
R33			RK73GB1J472J	CHIP R 4.7K J 1/16W	
R34			RK73GB1J271J	CHIP R 270 J 1/16W	
R35			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R36			RK73GB1J103J	CHIP R 10K J 1/16W	
R37			RK73GB1J333J	CHIP R 33K J 1/16W	
R38			RK73GB1J433J	CHIP R 43K J 1/16W	
R39			RK73GB1J222J	CHIP R 2.2K J 1/16W	
R40			RK73GB1J203J	CHIP R 20K J 1/16W	
R41			RK73GB1J303J	CHIP R 30K J 1/16W	
R42			RK73GB1J203J	CHIP R 20K J 1/16W	
R43			RK73GB1J303J	CHIP R 30K J 1/16W	
R44 ,45			RK73GB1J123J	CHIP R 12K J 1/16W	
R46			RK73GB1J243J	CHIP R 24K J 1/16W	
R47			RK73GB1J153J	CHIP R 15K J 1/16W	
R48			RK73GB1J273J	CHIP R 27K J 1/16W	
R49			RK73GB1J183J	CHIP R 18K J 1/16W	
R50			RK73GB1J223J	CHIP R 22K J 1/16W	
R51			RK73GB1J183J	CHIP R 18K J 1/16W	
R52			RK73GB1J223J	CHIP R 22K J 1/16W	
R53 ,54			RK73GB1J822J	CHIP R 8.2K J 1/16W	
R55 -57			RK73GB1J101J	CHIP R 100 J 1/16W	

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(D40-1133-05)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q20 -22			2SC3303(Y-LB)	TRANSISTOR	
Q23			DTA143XK	DIGITAL TRANSISTOR	
Q24			DTC124EK	DIGITAL TRANSISTOR	
Q60 ,61			2SC2412K	TRANSISTOR	
Q73 ,74			DTC124EUA	DIGITAL TRANSISTOR	
Q91			2SC2411K	TRANSISTOR	
MECHANIS ASSY (D40-1133-05)					
1	1B	*	A10-4697-08	CHASSIS ASSY	
2	1B		D14-0718-08	ROLLER	
5	1B		D13-1500-08	RACK (GEAR)	
6	1B		J30-1067-08	SPACER	
7	1B		J30-1068-08	SPACER (BLACK)	
8	2D		D10-4478-08	SLIDER ASSY	
9	2D		D21-2335-08	SHAFT	
10	2D		D13-2003-08	GEAR	
11	2D		D23-0947-08	RETAINER	
12	2D		D13-2005-08	GEAR	
13	2D		D13-2004-08	GEAR	
14	2D		D13-2084-08	GEAR	
15	2D		D13-2013-08	GEAR	
16	2D		D13-2012-08	GEAR	
17	2D		D13-2011-08	GEAR	
18	2D		D13-2010-08	GEAR	
22	2D		J90-0952-08	GUIDE	
23	1D		G01-3007-08	COMPRESSION COIL SPRING	
26	1B		D10-4389-08	SLIDER	
27	1B		D10-4390-08	SLIDER	
29	2D		J21-9530-08	MOUNTING HARDWARE	
30	2D		D13-2085-08	GEAR ASSY	
32	2D		G02-1333-08	FLAT SPRING	
33	2D		J21-9531-08	MOUNTING HARDWARE	
34	2D		D13-2086-08	GEAR ASSY	
35	2D		J26-4039-08	PCB ASSY (with VARIABLE RESISTOR)	
36	2D		D13-2059-08	GEAR ASSY	
38	1B		J90-0951-08	GUIDE	
39	2B		G01-3008-08	TENSION COIL SPRING	
40	2D		R31-0228-08	VARIABLE RESISTOR	
44	1D		F19-1346-08	BLIND PLATE	
45	2D		E39-0340-08	WIRE HARNESS (2-PIN)	
46	2D		E39-0341-08	WIRE HARNESS (3-PIN)	
47	2D		E39-0342-08	WIRE HARNESS (3-PIN)	
51	2D		N29-0509-08	RETAINING RING	
52	1B		N19-2131-08	FLAT WASHER	
53	2D		N19-1135-08	FLAT WASHER	
54	2D		N29-0517-08	RETAINING RING	
55	1B		N09-4290-08	MACHINE SCREW	
56	1D		N09-4330-08	STEPPED SCREW	
58	1B		N09-4374-08	MACHINE SCREW (2X2.2)	
59	2D		N09-4375-08	MACHINE SCREW (2X4)	
60	2D		N38-2030-45	PAN HEAD MACHINE SCREW (2X3)	
61	2D		N09-4376-08	MACHINE SCREW (2X3)	
62	1D		N09-4164-08	TAPTITE SCREW (2X3)	
69	1B		F09-1633-08	SHEET	

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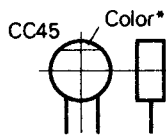
△ indicates safety critical components.

PARTS DESCRIPTIONS

CAPACITORS

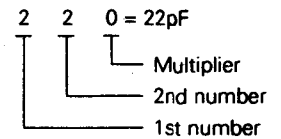
CC 45 TH 1H 220 J
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating
2 = Shape ... round, square, ect. 5 = Value
3 = Temp. coefficient 6 = Tolerance



Capacitor value

- 010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF - 10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7

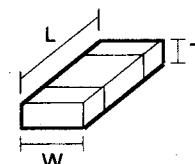
(Chip) (B, F)

Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

- 1 = Type 5 = Rating wattage
2 = Shape 6 = Value
3 = Dimension 7 = Tolerance
4 = Temp. coefficient

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

KVC-1000

SPECIFICATIONS

Monitor	
Screen Size (Diagonal)	6.5-inch WIDE
Screen Size (Width x Height)	142.6mm x 80.7mm
Display System	Transparent TN LCD Panel
Drive System	TFT Active Matrix System
Number of Pixels	336,960 (480H x 234V x RGB)
Effective Pixels	99.99%
Pixel Arrangement	RGB Stripe
Back lighting	Cold Cathode Tube
Speaker Audio Output	1W (40mm x 20mm)
TV Tuner and Terminals	
Color System (Television)	PAL/SECAM
Color System (Video)	NTSC/PAL
Television System	(PAL) B/G (PAL) I (SECAM) L (SECAM) D/K (SECAM) B/G
Channel Converge (VHF)	2ch - 12ch Ach - H2ch 2ch - 10ch 1ch - 12ch 2ch - 12ch
Channel Converge (UHF)	21ch - 69ch 21ch - 69ch 21ch - 69ch 21ch - 69ch 21ch - 69ch
Channel Selection System	PLL Frequency Synthesizer System
Demodulation System	Split-Carrier System
Antenna Input	4ch Diversity System (75Ω / Mini Plug 3.5 φ)
Front Aux Input (Mini Jack x 1)	
Video Input Level	1Vp-p/75Ω
Audio Input Level	1V/22KΩ
Video Input/Output (RCA Pin x 1)	
Video Input Level	1Vp-p/75Ω
Audio Input Level	1V/22KΩ
Video Output Level	1Vp-p/75Ω
Audio Output Level	500mV/1KΩ
RGB Input (13-Pin)	0.7Vp-p/75Ω
General	
Operating Voltage	14.4V (11V ~ 16V)
Current Consumption	2.0A (1.4A during normal operations)
Operating Temperature Range	-10°C ~ +60°C
Storage Temperature Range	-20°C ~ +85°C
Main Unit Size (Width x Height x Depth)	180mm x 50mm x 182mm
Installation Size (Width x Height x Depth)	178mm x 50mm x 165mm
Main Unit Weight	1.8Kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

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